

HCCMD55	956895	133	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	94%	225	115
HKADF15	960658	135	blastx.2	(AF179370) insulin- like growth factor binding protein 5 protease [Rattus norvegicus]	gb AAD52683.1 AF1 79370_1	94% 70% 32%	424 113 9	1551 499 155
HOGES55	961337	136	blastx.2	proline-rich protein [Mus musculus]	gb AAA53048.1	31% 33% 33% 33% 33% 27%	515 515 645 809 1099 1099	1117 1117 1397 1117 1452 1557
HKZAJ14	961458	137	blastx.2	(AL133051) hypothetical protein [Homo sapiens]	emb CAB61378.1	100%	219	1028
HLHAE14	962362	138	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60% 38%	1969 1820	1805 1680
HBCIN16	965190	139	blastx.2	calyphosine [Homo sapiens]	emb CAA66609.1	99%	38	346
HCGAF29	965372	140	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	97% 27% 53% 34% 60% 60% 60% 46% 36% 53%	32 473 2270 2226 2269 2273 2272 2269 2226 2270	1660 940 2308 2312 2313 2317 2316 2307 2315 2314

HB3AB02	967807	142	blastx.2	(AK00069) unnamed protein product [Homo sapiens]	dbj BAA90924.1	47%	1600	1665
HOUOR01	968171	143	blastx.2	similar to D.melanogaster peroxilasin(U11052) [Homo sapiens]	dbj BAA13219.1	100%	2	1267
HDTIG18	968454	144	blastx.2	(AB017644) ubiquitin-conjugating enzyme E2 [Homo sapiens]	dbj BAA76544.1	100%	391	1011
HBLGD30	968949	145	blastx.2	precuruloplasmin (EC 1.16.3.1) [Homo sapiens]	gb AAA51976.1	100%	1	2187
HTFHK04	969387	146	blastx.2	(AK000200) unnamed protein product [Homo sapiens]	dbj BAA91005.1	40%	106	1512
HE8NQ16	970046	148	blastx.2	E20D12.3 gene product [Caenorhabditis elegans]	gb AAA81672.1	41%	1183	2184
HOFMS34	973010	149	blastx	hPM5R6 [Homo sapiens]	gb AAA97460.1	94%	306	151
HOFOB11	973505	150	blastx.2	15 KD SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMAN	38%	359	1099
HTLHN94	974667	151	blastx.2	(AB012955) KIP2 [Homo sapiens]	dbj BAA33584.1	36%	1259	1891
HLDRT31	975754	152	blastx.2	hepatocyte growth	gb AAA50165.1	25%	2021	2653
						25%	974	1102
						59%	324	536
						66%	552	605
						95%	18	503
						99%	444	812
						90%	91	639

					factor-like protein [Homo sapiens]			50%	100	579
								44%	100	579
								50%	346	558
HWLHW8 6	975771	153	blastx.2		epithelial glycoprotein (EGP) precursor [Homo sapiens]	gb AA35723.1		100%	245	1186
HOFNM53	976051	154	blastx.2		(AL110276) hypothetical protein [Homo sapiens]	emb CAB53711.1		37%	498	1094
HDPSE86	976207	155	blastx		(AF086713) rasGAP- activating-like protein [Homo sapiens]	gb AAD09006.1		83%	757	1311
								91%	1	420
								96%	508	774
								83%	401	511
								30%	361	450
								42%	1	42
HHFOE18	976216	156	blastx.2		(AL117664) hypothetical protein [Homo sapiens]	emb CAB56034.1		52%	376	1275
								35%	14	139
HHFNH27	976968	157	blastx.2		Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1		98%	26	589
								100%	3	26
HMMBZ8 1	977264	158	blastx.2		alternatively spliced product using exon 13A [Homo sapiens]	gb AAB49034.1		52%	545	369
HSLGF32	977704	159	blastx.2		(AL133063) hypothetical protein [Homo sapiens]	emb CAB61387.1		52%	2	250
HODFU73	978812	161	blastx.2		myeloid ecotropic viral integration site-1b	gb AA85509.1		94%	371	652

HNBUA49	978998	162	blastx.2	[Mus musculus] (AF085356) putative RNA helicase [Homo sapiens]	gb AAD40191.1	97% 38%	365 130	1282 183
HVVDU73	979346	163	blastx.2	ladinin [Homo sapiens]	gb AAB58817.1	99%	53	1603
HHESX72	979468	164	blastx.2	(AK001665) unnamed protein product [Homo sapiens]	dbj BAA01821.1	96%	202	480
HOCYP88	979547	165	blastx.2	(AF035299) similar to GAP binding protein p62do [Homo sapiens]	gb AAB88182.1	100%	136	939
HOGDC64	979666	166	blastx.2	kinase A anchor protein [Homo sapiens]	emb CAA66000.1	100% 40% 45%	236 1 40	769 165 204
HSIEA14	980139	167	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA091131.1	72% 70% 68%	613 783 667	482 673 620
HSPSY43	980269	168	blastx.2	alphaII spectrin [Rattus norvegicus]	emb CAA62350.1	100%	937	1659
HSXBH24	981029	169	blastx.2	(AF181645) BeDNA.GH12144 [Drosophila melanogaster]	gb AAD55431.1 AF1 81645_1	44% 36% 28% 26% 31% 22% 35% 23%	301 1207 1684 1702 1609 1711 1819 1867	1263 2148 2040 2067 1896 2061 1962 2157
HOFAE61	981108	170	blastx.2	predicted using Genefinder; Similarity to E.coli guanosine-3,	emb CAB05030.1	59% 71% 50%	173 5 727	430 88 822

HCFOF82	981272	171	blastx.2	1 [Caenorhabditis elegans] (AL133558) hypothetical protein [Homo sapiens]	emb CAB63713.1	98%	2	901
HOCMT79	981309	172	blastx.2	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus]	gb AA085505.1	94% 96%	481 2	1413 481
HKAIE03	981319	173	blastx.2	Wiskott-Aldrich Syndrome Protein [Mus musculus]	gb AAC52556.1	35% 39% 40% 55% 34%	392 233 407 306 288	6 6 300 253 211
HOCPO31	981593	174	blastx.2	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	gb AAB99905.1	79%	381	812
HAOTG88	981606	175	blastx.2	No definition line found [Escherichia coli]	gb AAC43132.1	100%	217	2
HVCAE21	981768	176	blastx.2	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	gb AAD42057.1 AF0 44956_1	100%	80	616
HFPCK56	981812	177	blastx.2	(AF099664) Cdc42 effector protein 4 [Homo sapiens]	gb AAD16299.1	88%	3	125

HAOSJ58	981859	178	blastx.2	(AJ271784) chromokinesin [Homo sapiens]	emb CAB75427.1	87%	24	482
HOPJT48	981862	179	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	321	250
						91%	318	247
						95%	316	245
						100%	350	285
						100%	349	284
						100%	348	283
						100%	345	280
						100%	347	282
						100%	346	281
						100%	342	277
						100%	344	279
						100%	343	278
						100%	340	275
						100%	339	274
						100%	341	276
						100%	336	271
						100%	338	273
						100%	337	272
						100%	335	270
						100%	333	268
						100%	334	269
						100%	330	265
						100%	331	266
						100%	332	267
						100%	327	262
						100%	328	263
						100%	329	264

HCFAV61	981914	180	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	100%	324	259
HOV1Y54	982032	182	blastx.2	similar to cuticle collagen [Caenorhabditis elegans]	emb CAA91932.1	100%	325	260
						91%	313	242
						88%	318	241
						84%	316	239
						64%	318	217
HE8MM52	982197	184	blastx.2	(AL023828) cDNA EST yk289g5.5 comes from this gene; cDNA EST 11 yk653f1.5 comes from this gene; cDNA EST EMBL:U07875 comes from th	emb CAA19455.1	48%	628	1137
						46%	121	552
HJBCC19	982465	185	blastx.2	(AK000516) unnamed protein product [Homo sapiens]	dbj BAA91222.1	99%	503	949
						90%	8	157
HODAA93	982618	186	blastx.2	(AJ224979) MTMR1 [Homo sapiens]	emb CAA12271.1	96%	63	737
HSPS174	982764	187	blastx.2	L6 [Homo sapiens]	gb AAA36158.1	74%	698	790
HCEHZ42	983008	188	blastx.2	unknown [murine herpesvirus 68]	gb AAB66420.1	100%	100	705
						32%	2124	3170
						38%	1167	1451
						38%	1167	1451

							38%	1167	1451
							38%	1167	1451
							38%	1167	1451
							32%	2127	2414
							39%	2140	2304
							35%	94	375
							35%	94	375
							35%	94	375
							37%	116	334
							37%	116	334
							37%	116	334
							37%	116	334
							34%	620	817
							34%	620	817
							34%	620	817
							34%	620	817
							37%	7	135
							37%	7	135
							38%	1234	1422
							38%	1234	1422
							38%	1234	1422
HDPVU15	983592	189	blastx.2	replication factor C, 37-kDa subunit [Homo sapiens]	gb AAB09785.1		100%	72	686
							100%	685	954
							100%	1025	1138
HT5GC28	984008	190	blastx.2	alpha subunit; forms heterodimer with NC2 alpha/Dx1 [Homo sapiens]	emb CAA65358.1		100%	1216	1308
							60%	34	423
							58%	248	421

HDABW5 0	984168	191	blastx.2	t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	emb CAA37064.1	100%	185	451
HAQBH1	985043	192	blastx.2	(AJ243177) Xenopus RPA interacting protein alpha [Xenopus laevis]	emb CAB45690.1	42% 46% 46% 28% 35%	393 110 244 238 247	626 244 393 369 336
HMVAW4 2	985280	193	blastx.2	extensin-like protein [Zea mays]	emb CAA84230.1	28%	960	10
HAGDF03	985323	194	blastx.2	neuromedin U [Homo sapiens]	emb CAA53619.1	100%	169	690
HOPKI29	985401	195	blastx.2	(AF087135) F1FO-type ATPase subunit d [Homo sapiens]	gb AAC36338.1	100%	65	547
HAIJA11	985580	196	blastx.2	GTBP-ALT [Homo sapiens]	dbj BAA23673.1	98% 97%	394 2	1293 391
HWAAH1 1	986078	197	blastx.2	(AB031292) proteolipid protein 2 [Mus musculus]	dbj BAA83500.1	31%	134	511
HSAMI43	986158	198	blastx.2	(AF111423) chromosome condensation protein XCAP-G [Xenopus laevis]	gb AAD09819.1	54% 53%	14 14	1471 1387
HNFJH73	986165	199	blastx.2	erm [Homo sapiens]	emb CAA65246.1	100%	1	591
HNTCH03	986328	200	blastx.2	put. ORF [Homo sapiens]	emb CAA39297.1	48% 70%	103 651	363 680
HSUAA20	986744	201	blastx.2	replication protein A,	gb AAA36584.1	100%	2	1312

HSPAD08	986767	202	blastx.2	70-kDa subunit [Homo sapiens] (AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens) (AL121740) hypothetical protein [Homo sapiens] (AF068749) sphingosine kinase [Mus musculus]	emb CAB37641.1	100%	1315	1347
HFKBA32	987018	203	blastx.2		emb CAB57330.1	76% 83%	256 540	1092 743
HHFLU49	987071	204	blastx.2		gb AAC61698.1	46%	278	718
HOENX16	987112	205	blastx.2	helix-loop-helix protein [Homo sapiens]	emb CAA69255.1	100%	368	850
HTFOW71	987165	206	blastx.2	(AF121862) sorting nexin 13 [Homo sapiens]	gb AAD27835.1 AF121862_1	96% 88%	38 3	400 53
HTTAG03	987262	207	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	94% 47% 41% 44% 36% 33% 37% 61%	57 81 663 492 801 516 195 1228	1289 476 1238 857 1061 812 428 1278

HNTNN89	987577	208	blastx.2	elongation factor 2 [Homo sapiens]	emb[CAA35829.1]	98% 77% 100%	110 543 2	547 713 115
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb[AAD21821.1]	96% 100%	303 6	398 29
HLDCJ16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier- protein] reductase (LC 1.1.1.100). [Escherichia coli]	dbj[BAA35901.1]	39%	159	761
HCOPH23	987900	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb[CAA61667.1]	94%	289	447
HEEAQ78	988159	212	blastx.2	TBX2 [Homo sapiens]	gb[AAA73861.1]	99% 98% 33% 29% 29%	164 1 12 206 260	475 165 191 394 403
HOFNY16	988363	213	blastx.2	(AL110239) hypothetical protein [Homo sapiens]	emb[CAB53690.1]	99% 100%	242 144	853 236
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein [Homo sapiens]	dbj[BAA34781.1]	98%	106	1404
HLMJB09	988499	215	blastx.2	cDNA EST yk575f9.3 comes from this gene [Caenorhabditis elegans]	emb[CAA94859.1]	39% 34%	270 496	491 591
HOVEF60	988526	216	blastx.2	envelope protein [Homo sapiens]	gb[AAA88027.1]	75% 36%	377 11	598 298
HOGDR72	988536	217	blastx.2	RNA polymerase II transcription factor SIII	gb[AAA75522.1]	100%	62	415

HOCMF20	988556	218	blastx.2	p18 subunit [Homo sapiens] high mobility group protein 2a [Homo sapiens]	emb CAA71143.1	99%	1	366
HAMHH2 6	988737	219	blastx.2	MHC Class I region proline rich protein [Homo sapiens]	gb AAB40147.1	98%	429	728
HHFOX44	988904	220	blastx.2	binding protein [Homo sapiens]	emb CAA00862.1	99% 52% 56% 28% 36% 31% 45%	153 308 804 67 88 637 48	587 907 956 222 318 789 107
HPWDE54	989029	221	blastx.2	(AJ252060) TRABID protein [Homo sapiens]	emb CAB64449.1	97%	1	2127
HNOAX46	989183	222	blastx.2	Berg36 [Homo sapiens]	emb CAA67781.1	100%	49	789
HCQCB28	989280	223	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA9131.1	60% 77% 57%	471 301 1148	292 167 1107
HOOJB32	989321	224	blastx.2	(AB007619) EBAG9 [Homo sapiens]	dbj BAA22572.1	100%	535	1173
HMWJ35	989323	225	blastx.2	Leu2 [Homo sapiens]	emb CAA75516.1	93% 100% 72%	312 551 260	410 607 346
HHFIA95	989396	226	blastx.2	(AB002533) Qip1 [Homo sapiens]	dbj BAA19546.1	92% 24% 47% 35%	120 279 1 5	1178 974 216 121

HSPSH36	989607	227	blastx.2	transcription factor ILF [Homo sapiens]	emb CAA43200.1	94%	77	247
HAAA25	989952	228	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2	100%	250	282
HTEMJ16	990060	229	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	100%	100	660
HWLAB90	990146	230	blastx.2	(AF067817) VAV-3 protein [Homo sapiens]	gb AAC79695.1	97%	361	618
HOSED43	990184	231	blastx.2	(AK001851) unnamed protein product [Homo sapiens]	dbj BAA91941.1	98% 89%	2 622	652 813
HNODF50	990254	232	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	100%	616	1155
HLWBV17	990255	233	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742_1	93% 100%	187 116	528 181
HOCQH66	990435	234	blastx.2	collagen type VI, alpha 3 chain [Homo sapiens]	emb CAA36267.1	100% 78% 57%	282 123 26	542 206 88
						98% 43% 40% 45% 46% 44% 47% 48% 45% 46% 43% 44%	43 40 40 43 49 43 46 46 46 49 49 43	2745 330 330 327 330 327 330 330 330 339 327 327

HOGDC67	990546	235	blastx.2	pyrroline-5-carboxylate reductase [Homo sapiens]	gb/AAA36407.1]	48%	85	330
HCDB002	990609	236	blastx.2	TIP120 [Rattus norvegicus]	dbj BAA13432.1]	97%	10	3258
HODGN92	990611	237	blastx.2	coded for by C. elegans cDNA yk38h3.5; coded for by C. elegans I 1 . [Caenorhabditis elegans]	gb/AAA83581.1]	66%	131	202
HPDRP30	990751	238	blastx.2	(AL122073) hypothetical protein [Homo sapiens]	emb CAB59248.1]	37%	107	499
HBXFN09	990769	239	blastx.2	ORF 3 [Homo sapiens]	gb/AAA58464.1]	99%	1436	2098
HDTBO75	990913	240	blastx.2	(AF065391) ZIS1 [Homo sapiens]	gb/AAD09746.1]	42%	65	226
						71%	43	63
						100%	241	324
						39%	4	72
						45%	13	72
						32%	1	75
						36%	1	72
						33%	13	75
						21%	4	72

HELGN26	991014	241	blastx.2	(AF123653) FEZ1 [Homo sapiens]	gb AAD23834.1 AF1 23653_1	47% 52% 38%	192 32 171	902 181 470
HODCU15	991048	242	blastx.2	(AF213822) hypothetical protein [Zymomonas mobilis]	gb AAF23786.1 AF2 13822_1	42% 56% 27%	1104 1552 1710	1550 1710 1929
HOGDI51	991268	243	blastx.2	(AF007872) torsinB [Homo sapiens]	gb AAC51733.1	100% 92% 69%	238 607 803	492 873 940
HLWAF02	991516	244	blastx.2	(AK001371) unnamed protein product [Homo sapiens]	dbj BAA91655.1	100%	192	449
HRKPA16	991654	245	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	76%	263	24
HPDQX94	991761	246	blastx.2	microsomal glutathione S-transferase 2 [Homo sapiens]	gb AAC51768.1	100%	210	650
HEAA Y09	992678	247	blastx.2	TSC-22 [Homo sapiens]	dbj BAA07598.1	96%	40	333
HPDRH78	992780	248	blastx.2	(AK000474) unnamed protein product [Homo sapiens]	dbj BAA91189.1	100% 79%	598 933	903 1079
HODFO57	992973	250	blastx.2	(AF176524) F-box protein FBL10 [Mus musculus]	gb AAF09133.1	67%	8	811
HOCPP44	993380	251	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	99%	157	540
HPAMU38	993403	252	blastx.2	cDNA EST	emb CAB04720.1	48%	111	407

				yk269g12.5 comes from this gene; cDNA EST EMBL:D27364.1 comes from this gene; cDNA EST EMBL:D36272 comes fr				30% 37%	450 20	803 91
HNGGK47	993602	253	blastx.2	(AF126163) HHLA3 protein [Homo sapiens]	gb AAD33288.1 AF126163.1			78%	277	372
HODGN51	993754	254	blastx.2	putative p150 [Homo sapiens]	gb AAC51261.1			64% 65% 48% 69%	124 77 3 545	549 205 134 613
HODCT60	993806	255	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1			56% 50%	239 624	382 671
HAQBY81	993918	256	blastx.2	putative [Rattus norvegicus]	emb CAA52297.1			43%	3	695
HDTGF49	993931	257	blastx.2	(AK002081) unnamed protein product [Homo sapiens]	dbj BAA92074.1			87%	1073	1531
HOGBN62	994134	258	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1			95% 95% 12 43%	155 12 421	295 155 558
HSKGR42	994234	259	blastx.2	(AK000741) unnamed protein product [Homo sapiens]	dbj BAA91354.1			73% 96% 56% 51% 34% 28%	147 1 412 413 291 273	536 153 528 499 404 377

HOEBQ85	994356	260	blastx.2	(AL117435) hypothetical protein [Homo sapiens]	emb CAB55923.1	28% 32%	316 291	468 437
HOPIG01	994536	261	blastx.2	creatine kinase B [Homo sapiens]	emb CAA33389.1	100%	1	1134
HKBAK06	994596	262	blastx.2	Cks1 protein homologue [Homo sapiens]	emb CAA38702.1	100% 81%	231 67	410 144
HKGCN61	994664	263	blastx.2	NifU-like protein [Homo sapiens]	gb AAC50885.1	100%	169	531
HFOYI37	994776	265	blastx.2	ribosomal protein [Homo sapiens]	dbj BAA03400.1	100%	85	513
HOFNL18	994874	266	blastx.2	(AL031432) dJ465N24.1 (PUTATIVE novel protein similar to predicted yeast and worm proteins) [Homo sapiens]	emb CAB37991.1	84%	43	339
HOENT57	994954	267	blastx.2	phosphate cyclase [Homo sapiens]	emb CAA72364.1	98% 93%	273 124	1157 270
HCBMT45	994993	268	blastx.2	lin-10 protein homolog [Rattus norvegicus]	gb AAB51383.1	96%	46	1311

HATDZ56	995200	269	blastx.2	(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD)) [Homo sapiens]	emb CAB43741.1	100%	156	1154
HOCQ144	995229	270	blastx.2	(AL050348) dJ47F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	emb CAB66118.1	92%	8	520
HNOJG43	995562	271	blastx.2	alpha 4 protein [Homo sapiens]	emb CAA70119.1	99%	73	981
HSPSB95	995590	272	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	99%	47	838
HCORG29	995806	273	blastx.2	SRp30c [Homo sapiens]	gb AA93069.1	100%	100	762
HCRNO02	995894	274	blastx.2	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52.1 HK4A1]	sp G1488414 G14884 14	74% 63%	33 2	149 34
HCB0I79	996247	275	blastx.2	(AK000857) unnamed protein product [Homo sapiens]	dbj BAA91400.1	80% 100%	99 419	506 637
HVCAB73	996337	276	blastx.2	NF45 protein [Homo sapiens]	gb AA20993.1	94% 70%	90 1175	1307 1297
HSDJH04	996619	277	blastx.2	RNA polymerase II subunit [Homo sapiens] (AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]	gb AAA91459.1	100%	219	419
HSOANI8	996804	278	blastx.2		dbj BAA82970.1	100%	1	222

HHEHP49	996874	279	blastx.2	L-lactate permease [Escherichia coli]	gb AAA03583.1	91%	770	222
HCHCF36	996903	280	blastx.2	rac protein kinase-beta [Homo sapiens]	gb AAA36385.1	96%	1	456
HAHCK58	997127	281	blastx.2	(AK001138) unnamed protein product [Homo sapiens]	dbj BAA91517.1	98%	1	228
HETIJ06	997165	282	blastx.2	(AF152097) CGI-05 protein [Homo sapiens]	gb AAD34147.1 AF1 52097_1	97%	218	352
HAPOE30	997595	283	blastx.2	nuclear protein SA-1 [Homo sapiens]	emb CAA99731.1	100% 88%	244 11	759 244
HRGDC33	997862	284	blastx.2	C13F10.7 gene product [Caenorhabditis elegans]	gb AAC47967.1	34% 44%	301 301	735 648
HMTMB9 1	997873	285	blastx.2	(AC004838) U1 small ribonucleoprotein 1 SNRP homolog; match to PID:g4050087 [Homo sapiens]	gb AAF19255.1 AC0 04858_3	100% 41%	1037 487	1174 555
HFAAD07	998059	286	blastx.2	(AJ132948) rfg7 protein [Homo sapiens]	emb CAB55313.1	97% 97%	274 32	957 298
HE8TG67	998517	287	blastx.2	product is related to clathrin-associated protein. [Homo sapiens]	dbj BAA09762.1	97% 97%	1226 502	1360 618
HACNC39	998533	288	blastx.2	weak similarity to Arabidopsis thaliana ubiquitin-like protein 8 [Caenorhabditis elegans]	gb AAB42266.1	80%	162	380

HCOQP78	998901	289	blastx.2	(AB008927) neuropsin type2 [Homo sapiens]	dbj BAA82666.1	100%	75	989
HCGMA67	998905	290	blastx.2	rab8 [Canis familiaris]	emb CAB56776.1	100%	47	664
HSKHK19	998968	291	blastx.2	(AC004890) similar to HUB1; similar to BAA24380 (PID:g2/89430) [Homo sapiens]	gb AAD45825.1 AC004890_2	98% 38% 54% 70%	2 566 1095 558	466 721 1160 587
HAGGR59	999124	292	blastx.2	histone H1-1 [Volvox carteri]	gb AAA474723.1	36%	270	596
HOPKS83	999148	293	blastx.2	(AF026124) schwannoma-associated protein [Mus musculus]	gb AAC73069.1	93%	425	1894
HE8CY70	999157	294	blastx.2	SEP PROTEIN (FRAGMENT).	sp Q15352 Q15352	100% 92% 66% 48%	691 32 3 635	1368 691 128 706
HPCT153	999243	295	blastx.2	(AJ250562) tetraspanin protein [Homo sapiens]	emb CAB65594.1	88% 100%	34 474	546 779
HOPKN50	999313	296	blastx.2	(AF017790) retinoblastoma-associated protein HEC	gb AAB80726.1	95%	152	1702
HAPAI17	999778	297	blastx.2	[Homo sapiens] (AK001832) unnamed protein product [Homo sapiens]	dbj BAA91931.1	97%	2	115
HHAUV59	999808	298	blastx.2	p116Rip [Mus musculus]	gb AAB18198.1	79% 67% 21%	95 547 1454	1903 801 1669

HTXLL31	1000315	299	blastx.2	(AK001770) unnamed protein product [Homo sapiens]	dbj BAA91897.1	36% 27% 26% 39%	663 666 4 481	992 1379 645 621
HDPUH64	1000339	300	blastx.2	CRAG protein [Drosophila melanogaster]	emb CAA76938.1	42% 66% 65%	8 525 475	598 692 534
HTHS93	1000424	301	blastx.2	(AL117183) conserved hypothetical protein [Schizosaccharomyces pombe]	emb CAB54870.1	25% 36%	55 755	720 994
HMVCG79	1000582	302	blastx.2	(AJ387747) sialin [Homo sapiens]	emb CAB62540.1	100%	3	854
HODHK20	1000669	303	blastx.2	(AF176555) A-kinase anchoring protein 220 [Homo sapiens]	gb AA07045.1 AF176555_1	94%	76	627
HCHMO53	1000875	304	blastx.2	(AK000462) unnamed protein product [Homo sapiens]	dbj BAA91181.1	41%	296	556
HFKKG84	1001066	305	blastx.2	(AF047002) transcriptional coactivator ALY [Homo sapiens]	gb AAD09608.1	98%	1	666
HOFMT20	1001333	306	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	48%	40	237
HPAMB04	1001695	307	blastx.2	17-kDa protein [Homo sapiens]	gb AAA36038.1	99%	127	621
HODEK48	1001901	308	blastx.2	pol [porcine endogenous retrovirus]	emb CAA76582.1	41% 33%	398 25	721 423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	100%	373	807
HCOOS01	1002071	310	blastx.2	proliferation associated gene (pag) [Homo sapiens]	emb CAA48137.1	100%	105	701
HDACA35	1002096	311	blastx.2	(AK001496) unnamed protein product [Homo sapiens]	dbj BAA91724.1	73%	23	652
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed protein product [Homo sapiens]	dbj BAA91787.1	100% 28%	13 40	639 588
HTJAD78	1002459	313	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	98%	64	1041
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase [Homo sapiens]	gb AAA60116.1	98%	353	508
HPTTW90	1002479	315	blastx.2	Huntington's Disease (HD) gene [Homo sapiens]	emb CAA93701.1	99%	3	356
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA 1-92) [Homo sapiens]	emb CAA31007.1	100%	67	342
HODFU72	1002527	317	blastx.2	(AB022660) SET- binding protein (SEB) [Homo sapiens]	dbj BAA82444.1	32%	57	689
HCNSF57	1002545	318	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40940.1	96%	134	826
HODJU13	1002546	319	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	85%	2	106

HODIL25	1002551	320	blastx.2	nuclear protein, NP220 [Homo sapiens]	dbj BAA11748.1	99%	207	1556
HUVHS56	1002563	321	blastx.2	(AF097441) phenylalanine-tRNA synthetase [Homo sapiens]	gb AAC83802.1	100%	174	755
HPMTQ18	1002565	322	blastx.2	unnamed protein product [unidentified]	emb CAB69299.1	91% 53%	407 209	823 247
HLHCL46	1002591	323	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100%	153	923
HAOSD18	1002607	324	blastx.2	homologue to elongation factor 1- gamma from A. salina [Homo sapiens]	emb CAA45089.1	100%	98	1408
HACNG47	1002610	325	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	86	361
HOPJX95	1002729	326	blastx.2	RPS16 [Homo sapiens]	gb AAAG60583.1	100%	244	681
HSCLR05	1002807	327	blastx.2	HKR-T1 [Homo sapiens]	gb AAB24264.2	58% 42% 51% 41%	3 3 3 591	176 281 215 659
HVVAO74	1002811	328	blastx.2	clathrin light-chain A [Homo sapiens]	gb AA59505.1	100%	178	831
HVVBK18	1003155	330	blastx.2	proteasome subunit Hsc71 [Homo sapiens]	dbj BAA05646.1	100%	323	925
HSCLM55	1003224	332	blastx.2	(AC004983) similar to PID-g3877944 [Homo sapiens]	gb AAD15546.1	100%	28	768

HETIU23	1003706	333	blastx.2	(AL133630) hypothetical protein [Homo sapiens]	emb CAB63754.1	99%	881	1477
						99%	504	881
						73%	64	513
						100%	373	507
						28%	878	1084
						26%	1121	1327
						35%	343	459
HNOKB73	1004480	334	blastx.2	(AF026692) frp IE [Homo sapiens]	gb AAC04617.1	93%	18	515
HODFB06	1004583	335	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41%	362	760
						51%	3	143
						63%	135	191
						51%	265	360
						70%	200	259
HODJA76	1004619	336	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	56%	171	293
HODJY60	1004625	337	blastx.2	putative [Homo sapiens]	gb AAC37567.1	38%	277	453
HODEF10	1004627	338	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	100%	141	683
HODFB03	1004631	339	blastx.2	DNA primase (p58 subunit) [Homo sapiens]	emb CAA52378.1	69%	10	135
						90%	1	789
HPMLN08	1004632	340	blastx.2	(AF027728) kinesin- related protein [Xenopus laevis]	gb AAC060300.1	25%	518	1165
						26%	135	533
						24%	524	1051
						23%	524	1060
HODEH08	1004633	341	blastx.2	(AK001410) unnamed protein product [Homo sapiens]	dbj BAA91675.1	87%	22	369

HEGBF25	1004635	342	blastx.2	(AF069736) PCAF associated factor 65 beta [Homo sapiens]	gb AAC39906.1	98%	165	758
HODIB51	1004643	343	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	52%	405	142
HODEC38	1004648	344	blastx.2	(AJ010089) GANP protein [Homo sapiens]	emb CAB52687.1	97% 52% 62% 87%	68 1993 2055 2030	208 2175 2150 2053
HODIQ24	1004660	345	blastx.2	(AK001892) unnamed protein product [Homo sapiens]	dbj BAA91965.1	100%	3	236
HVVDD56	1004887	346	blastx.2	gpStat50 [Homo sapiens]	emb CAA57684.1	97% 66%	435 1204	1238 1245
HTHDV01	1004950	347	blastx.2	c-fos protein [Homo sapiens]	gb AAA52471.1	100%	153	1292
HVVDJ95	1005153	348	blastx.2	Ral guanine nucleotide dissociation stimulator [Homo sapiens]	gb AA52360.1	80%	185	400
HODIY29	1005236	349	blastx.2	DNA-binding protein 5 - human	pir S26650 S26650	97% 89% 57% 59% 53% 52% 58% 43% 65%	1 13 1 4 19 4 4 1 4	963 963 453 453 453 444 408 453 453 276

HOELP29	1005359	350	blastx.2	uridine kinase [Mus musculus]	gb AAB50568.1	41% 42%	1 25	444 441
HWLF04	1005384	351	blastx.2	tax1-binding protein TXBP151 [Homo sapiens]	gb AAA75595.2	71%	309	1013
HYAAC49	1005511	352	blastx.2	(AF001628) interactor protein AbiBP4 [Homo sapiens]	gb AAD00897.1	100%	2	1015
HCOOA71	1005843	353	blastx.2	nuclear autoantigen fo 14 kDa [Homo sapiens]	emb CAB09660.1	97% 93% 33% 88% 70% 100% 100% 87%	107 107 155 58 690 717 720 717	688 727 688 111 749 737 740 740
HOUEB45	1005974	354	blastx.2	calcineurin binding protein cabin 1 [Homo sapiens]	gb AAD40846.1 AF072441_1	76% 98%	68 2	205 403
HUSJ14	1006018	355	blastx.2	(AK001676) unnamed protein product [Homo sapiens]	dbj BAA91829.1	99% 98% 54%	411 40 377	2081 381 448
HMCDB21	1006055	356	blastx.2	alpha1A-voltage-dependent calcium channel [Homo sapiens]	gb AAB49678.1	100%	435	509
HSDEY08	1006142	357	blastx.2	SWI/SNF complex 60 KDa subunit [Homo sapiens]	gb AAC50697.1	92% 80%	573 136	1037 603

HOOIT92	1006215	358	blastx.2	[AC007055] unknown [Homo sapiens]		gb AAD31938.1 AC0 07055_3	47%	158	403
HINORE03	1006250	359	blastx.2	(AK000927) unnamed protein product [Homo sapiens]		dbj BAA91430.1	37% 27% 34%	105 666 323	377 773 418
HPCITS21	1006317	360	blastx.2	(AE001373) predicted secreted protein [Plasmodium falciparum]		gb AAC71813.1	97%	44	172
HFATL31	1006399	361	blastx.2	light chain 3 subunit of microtubule-associated proteins 1A and 1B [Rattus norvegicus] (AF078848) BUP [Homo sapiens]		gb AAA20645.1	100%	2	328
HE2IE77	1006445	362	blastx.2	(AL137735) hypothetical protein [Homo sapiens]		emb CAB70899.1	99%	1	420
HINTD168	1006483	364	blastx.2	I(3)mbr protein homolog [Homo sapiens]		gb AAC69438.1	64% 41% 44% 40%	3 628 3 201	626 1410 533 611

HTRAA05	1006512	365	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	60% 55% 49% 28%	631 6 628 459	840 221 840 614
HMTAL96	1006635	366	blastx.2	ras-like protein [Homo sapiens]	gb AA36547.1	98%	90	515
HDTJP21	1006858	367	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942_1	67% 73%	17 126	136 215
HISEQ81	1006943	368	blastx.2	(AF009668) polyprotein [multiple sclerosis associated retrovirus]	gb AAB66528.1	83% 70% 87%	247 435 514	17 235 395
HODFH02	1006953	369	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	74% 52%	346 426	438 488
HOCPP18	1007230	370	blastx.2	(AF150100) small zinc finger-like protein [Homo sapiens]	gb AAD40006.1 AF1 50100_1	100%	305	571
HODFP91	1007941	371	blastx.2	SpZ12-1 [Strongylocentrotus purpuratus]	gb AAA85705.1	27%	69	806
H6EDU06	1007976	372	blastx.2	(AF151894) CGI-136 protein [Homo sapiens]	gb AAD34131.1 AF1 51894_1	99%	75	449
HPCRD26	1008013	373	blastx.2	predicted using Genfinder; Similarity to Yeast mitochondrial 11 yk432a4.3 comes	emb CAH02879.1	35% 44%	423 1220	1229 1294

HSIEH63	1008027	374	blastx.2	from this gene, cDNA EST yk432a4 (AF007791) secreted cement gland protein XAG-2 homolog [Homo sapiens]	gb AAC77358.1	65%	87	554
HPASD51	1008071	375	blastx.2	PDI (E.C.5.3.4.1) [Bos taurus]	gb AAA30690.1	33%	81	752
HCOQH27	1008154	376	blastx.2	IEF SSP 9502 [Homo sapiens]	gb AAAG5201.1	100%	131	1315
HCOPZ14	1008179	378	blastx.2	guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	889	1023
HODEC78	1008299	379	blastx.2	bicaudal-D [Homo sapiens]	gb AAB94805.1	94% 97% 40% 72% 20% 35% 21% 25% 39%	379 1203 319 1351 328 1191 328 856 328	1230 1343 744 1470 1188 1343 792 1056 396
HODEF29	1008304	380	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	80% 22%	38 202	133 330
HODEF78	1008314	382	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	3	101
HODEL83	1008324	383	blastx.2	pol gene protein, Xxx [Homo sapiens]	gb AA88026.1	76%	132	407
HHPSH76	1008325	384	blastx.2	(AF019386) heparan sulfate 3-O- sulfotransferase-1	gb AAB84388.1	100%	286	1206

HBGBE52	1008326	385	blastx.2	precursor [Homo sapiens] T2 [Mus musculus]	emb CAA48048.1	29% 33%	782 661	408 407
HBQAB30	1008327	386	blastx.2	alternatively spliced [Homo sapiens]	gb AAA35654.1	93%	24	737
HLHCB31	1008332	387	blastx.2	matrix metalloproteinase, MT2MMP [Homo sapiens]	dbj BAA13071.1	97%	1	558
HPFDV51	1008335	388	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	66% 69%	62 3	217 71
HODEG13	1008337	390	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	65% 66% 67%	2 183 341	214 341 478
HHPEK16	1008345	391	blastx.2	Kruessel-related DNA-binding protein [Homo sapiens]	gb AAA52689.1	79% 65%	166 387	405 470
HARAL81	1008349	392	blastx.2	(AF090894) PRO0113 [Homo sapiens]	gb AAF24018.1 AF090894 1	55% 55%	217 323	104 216
HFTAU42	1008350	393	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59% 55% 54%	1282 1115 1113	1106 990 1051
HETDA81	1008358	394	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	88% 42%	3 221	110 262

HODEI92	1008359	395	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	45%	1	306
HODEG86	1008379	397	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAAA91131.1	55% 51%	236 424	400 546
HODEA57	1008396	398	blastx.2	retrovirus-related pol polyprotein pseudogene - human 1	pir A26718 A26718	36% 58%	102 17	596 67
HODEB31	1008401	399	blastx.2	(AL021768) ATP binding protein-like [Arabidopsis thaliana]	emb CAA16931.1	52%	1	261
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10 [Mus musculus]	emb CAA11547.1	95% 51% 94%	374 136 625	628 375 678
HODEI59	1008423	401	blastx.2	(AJ237734) ribophorin II [Homo sapiens]	emb CAB54801.1	100% 100% 97% 39% 30%	296 1404 1270 1876 1145	1273 1859 1404 1959 1279
HODEF94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y3 Q9Y6Y5	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818) transcription factor AP-2 [Silurana tropicalis]	gb AAD53289.1 AF176818_1	79% 93%	296 3	769 296
HWACN7 1	1008764	404	blastx.2	(AF105261) natural killer cell receptor 2B4 [Homo sapiens]	gb AAD32538.1 AF105261_1	100%	174	1268
HOE/MU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF077038	97%	375	1151

					related protein homolog	77038_1			
HETBR71	1009343	407	blastx.2		[Homo sapiens] (AL049610) dJ1055C14.1 (transcription elongation factor A (SII)-like 1) [Homo sapiens]	emb CAB55700.1	99%	182	658
HE2ES17	1009349	408	blastx.2		CDV-IR protein [Mus musculus]	emb CAA71519.1	89%	3	914
HELHM06	1009362	409	blastx.2		pre-mRNA splicing factor [Homo sapiens]	gb AAA36649.1	85%	56	349
HE2ES61	1009388	411	blastx.2		(AC005034) gc-rich sequence dna-binding factor [Homo sapiens]	gb AAC82536.1	100%	555	427
HE2SO43	1009398	412	blastx.2		protein Htf9C [Mus musculus]	emb CAA39515.1	74%	73	390
HLHC107	1009403	413	blastx.2		(AL031985) dJ28H13.1 (similar to Ribosomal protein L21e) 1	emb CAB46381.1	75%	127	8
HTTBR65	1009414	414	blastx.2		ELA-F [Homo sapiens]	dbj BAA02234.1	100%	55	231
HPFCV71	1009453	415	blastx.2		(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	60%	449	622
HCABR46	1009479	416	blastx.2		BST-2 [Homo sapiens]	dbj BAA05679.1	88%	127	423
HCRCB80	1009482	417	blastx.2		OTK27 [Homo sapiens]	dbj BAA23363.1	100%	96	479
HPMLW78	1009833	418	blastx.2		E2A/PKL fusion	gb AAA36764.1	99%	1	606

HODIX27	1009854	420	blastx.2	protein [Homo sapiens] (AJ005324) glutamate permease [synthetic construct]	emb CAA06471.1	90%	1	123
HODJV85	1009857	421	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	77% 35%	366 505	205 416
HOJO38	1009918	422	blastx.2	ribosomal protein L14 [Homo sapiens]	dbj BAA13443.1	98%	1	603
HAOSI69	1009949	423	blastx.2	bcl-1 [Homo sapiens]	gb AAA58392.1	100%	271	1155
HSDTY67	1010157	424	blastx.2	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetus longicaudatus]	emb CAA42198.1	69%	60	689
HSDZM65	1010299	425	blastx.2	(AJ010953) putative Ca2+-transporting ATPase [Homo sapiens]	emb CAA09425.1	100%	2	337
HPDOC39	1010400	426	blastx.2	(AB009282) cytochrome b5 [Homo sapiens]	dbj BAA23735.1	99%	171	608
HE2FS15	1010525	427	blastx.2	(AF054175) mitochondrial proteolipid 68MP homolog [Homo sapiens]	gb AAC39909.1	100%	63	236
HTTKH22	1010596	428	blastx.2	weak similarity to	emb CAA86663.1	38%	887	1435

				microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742					32% 27%	1442 692	1561 949
HNOJG33	1010698	429	blastx.2	SAS [Homo sapiens]			gb AAC39524.1		98% 68% 100%	590 1203 1246	1207 1274 1278
HPDYK48	1011090	430	blastx.2	AZ-1 [Mus musculus]			dbj BAA19002.1		82% 77% 82% 70% 23% 23% 34% 25% 29% 26% 27% 27% 31% 19% 27% 27% 30% 26% 27% 22% 33%	236 1100 735 1 200 1100 753 203 1148 1160 284 1091 747 302 750 738 747 239 660 747 750	730 1630 1100 243 775 1603 1103 769 1612 1612 775 1600 1091 1091 709 1085 1094 1097 727 1088 1085 1007

HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]	gb AAC50152.1	99% 54%	30 120	1628 152
HPDRG92	1011209	432	blastx.2	2-oxoglutarate dehydrogenase precursor [Homo sapiens]	dbj BAA01393.1	82% 73% 35%	7 237 1	234 326 60
HOFMQ81	1011303	433	blastx.2	unnamed protein product [Bos taurus]	emb CAA71771.1	66% 66%	152 97	541 141
HOFNF27	1011315	434	blastx.2	coxsackie and adenovirus receptor protein [Homo sapiens]	emb CAA68868.1	89%	60	623
HOFND52	1011316	435	blastx.2	interferon alpha /beta receptor [Homo sapiens]	emb CAA61914.1	43% 44%	240 59	533 205
HOFNL96	1011321	436	blastx.2	GM2-activator protein [Homo sapiens]	emb CAA43408.1	49% 43%	72 28	551 123
HOFNF53	1011332	437	blastx.2	(AF039584) decay	gb AAC77439.1	46%	62	883

HOFMU61	1011360	438	blastx.2	accelerating factor soluble-form precursor; CD55 [Rattus norvegicus] protein [Rattus norvegicus] (AJ009698)	emb CAA08796.1	41% 28% 32% 75% 60%	1155 161 880 99 377	1706 784 1101 143 1249
HOFOF35	1011499	439	blastx.2	(AF061738) leucine aminopeptidase [Homo sapiens]	gb AAD17527.1	86% 88% 82% 25% 90% 100%	88 602 20 52 576 124	582 736 88 450 605 552
HULFJ37	1011537	440	blastx.2	midkine [Homo sapiens]	dbj BAA01457.1	93%	224	970
HOFME75	1011607	441	blastx.2	collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1	99%	229	1482
HOPKO74	1011608	442	blastx.2	collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1	100%	114	266
HCBBAS1	1011755	443	blastx.2	(AF077045) ATP synthase epsilon chain [Homo sapiens]	gb AAD27778.1 AF0 77045_1	42% 42% 52% 49% 50% 49% 47%	202 235 229 229 202 232 235	942 942 534 537 537 549 537
HDHEB13	1011773	444	blastx.2	type X collagen [Bos taurus]	emb CAA37624.1			

HDTM/G36	1011821	445	blastx.2	(AJ271158) DAPIIT protein [Rattus norvegicus]	emb CAB71156.1	45% 45% 49% 49% 45% 48% 49% 49% 47% 45% 44% 42% 35% 45% 34% 42% 40% 48% 32% 50% 31%	229 229 235 232 199 211 235 235 226 235 226 202 235 235 235 232 202 283 53 50 47	534 549 537 537 534 537 537 534 537 534 534 534 750 537 750 534 549 537 277 130 277
HVVCJ38	1011830	446	blastx.2	CLC-7 chloride channel protein [Homo sapiens]	emb CAA91556.1	100%	20	817
HPAMY22	1011840	447	blastx.2	scleraxis=basic helix- loop-helix transcription factor [mice, embryos,	gb AAB34266.1	79%	4	180

				Peptide, 207 aa [Mus sp.]				
HE9CP86	1011847	448	blastx.2	(AF161499) HSPC150 [Homo sapiens]	gb AAF29114.1 AF161499_1	100%	137	727
HPDOU46	1011883	449	blastx.2	(AF117582) calyphosine-like protein [Manduca sexta]	gb AAF16704.1 AF117582_1	52%	72	692
HFCDW73	1011901	450	blastx.2	(AK000376) unnamed protein product [Homo sapiens]	dbj BAA91124.1	94%	6	425
HOVEB13	1011919	451	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	99%	96	905
HPAMS93	1011948	452	blastx.2	TB1 [Homo sapiens]	gb AAA03587.1	97%	125	1105
HCRBN71	1011966	453	blastx.2	unknown [Saccharomyces cerevisiae]	gb AAA79999.1	40%	64	420
HCRNC60	1012005	454	blastx.2	tropomyosin [Homo sapiens]	gb AAA36771.1	81% 91% 31% 28% 27% 24% 22%	769 1202 1519 796 766 925 1238	1236 1519 1245 1257 1218 1212 1459
HSPSJ24	1012064	455	blastx.2	IFN-alpha responsive transcription factor [Homo sapiens]	gb AAA58687.1	100%	392	925
HOVDZ22	1012136	457	blastx.2	unnamed protein product [unidentified]	emb CAB69195.1	89%	2	82

HCONM62	1012454	460	blastx.2	100 kDa coactivator [Homo sapiens]	gb AAA80488.1	97% 29%	5 2	1306 646
HOGU69	1012459	461	blastx.2	TB2 [Homo sapiens]	gb AAA66351.1	99%	101	691
HVVB93	1012469	462	blastx.2	(AK001339) unnamed protein product [Homo sapiens]	dbj BAA91635.1	33% 27%	23 601	382 852
HCOMV86	1012482	463	blastx.2	DC classII histocompatibility antigen alpha-chain [Homo sapiens]	emb CAA25141.1	94% 98%	307 71	834 319
HCONI23	1012519	464	blastx.2	DNA-PK [Homo sapiens]	gb AAA79184.1	97%	1	990
HVVBL04	1012536	465	blastx.2	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	emb CAA94861.1	98%	2	310
HVVAF65	1012542	466	blastx.2	peroxisomal acyl-CoA oxidase [Homo sapiens]	emb CAA50574.1	98%	3	731
HCONN76	1012545	467	blastx.2	p78 protein [Homo sapiens]	gb AAA36458.1	99%	64	1716
HODEG95	1012599	469	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	64% 41%	452 550	300 443

HCOOX52	1012600	470	blastx.2	C1 inhibitor [Homo sapiens]	emb CAA30314.1	100%	68	1567
HVVBK78	1012645	472	blastx.2	protein kinase C mu [Homo sapiens]	emb CAA53384.1	98%	101	643
HVVBK73	1012646	473	blastx.2	amiloride binding protein [Homo sapiens]	emb CAA55046.1	93% 52%	2 648	709 710
HCOMW3 5	1012652	474	blastx.2	NBK [Homo sapiens]	emb CAA62013.1	100%	48	527
HVVB128	1012654	475	blastx.2	(AF026851) cytochrome oxidase assembly factor [Homo sapiens]	gb AAD08640.1	95% 99%	44 1102	1099 1701
HVVAF41	1012665	477	blastx.2	(AB006202) cytochrome b small subunit of complex II [Homo sapiens]	dbj BAA22054.1	100%	74	550
HVVAS32	1012668	478	blastx.2	giantin [Homo sapiens]	emb CAA53052.1	95% 97% 27% 22% 23% 23% 22% 23% 23% 23% 23% 22% 23% 23% 22% 20% 22%	24 2032 141 123 222 135 117 153 117 126 117 69 126	2036 2856 1877 2252 2015 2078 2030 2021 1829 2018 1877 2039 1883

[illegible]

HVVAQ22	1012684	480	blastx.2	smooth muscle myosin light chain kinase, smMLCK [C-terminal] 1.1	gb AAB50715.1	98% 98%	67 67	573 573
HTAES83	1012693	481	blastx.2	specific 116-kDa vacuolar proton pump subunit [Homo sapiens]	gb AAA97878.1	99% 99%	302 2350	1990 2961
HOCMN67	1012700	482	blastx.2	receptor kinase [Homo sapiens]	gb AAA58391.1	99% 92% 54% 60%	1 1142 1310 1332	1155 1306 1375 1376
HAPOW35	1012711	483	blastx.2	agpet8 protein. [Schizosaccharomyces pombe]	emb CAA94699.1	48%	113	553
HOVJM48	1013085	484	blastx.2	(AL035593) dJ310J6.1 (novel protein) [Homo sapiens]	emb CAB56526.1	100%	2	454
HBJHY84	1013213	485	blastx.2	(AK000703) unnamed protein product [Homo sapiens]	dbj BAA91330.1	97%	3	653
HFIAS44	1013288	487	blastx.2	(AF124727) acinusS [Homo sapiens]	gb AAD56725.1	99% 100% 43% 38% 34% 28% 24% 26% 23% 30%	205 69 1186 1186 1168 1195 1183 1375 1313 1490	1605 203 1389 1407 1395 1605 1605 1653 1615 1675

HHAUD68	1013349	488	blastx.2	non-histone chromosomal protein [Homo sapiens]	gb AAB53427.1	40%	1112	1207
HEEAA89	1013436	489	blastx.2	(AF071172) HERC2 [Homo sapiens]	gb AAD08657.1	100%	269	538
HNTAK22	1013524	490	blastx.2	(AF053944) aortic carboxypeptidase-like protein ACLP [Homo sapiens]	gb AAC25585.1	98%	43	675
						100%	2	46
						99%	2	3175
						34%	2	853
						32%	53	853
						27%	20	763
						27%	3	305
						25%	9	341
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed protein product [Homo sapiens]	dbj BAA91882.1	98%	281	637
						88%	633	707
HVVAW7	1013740	492	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	47%	649	750
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	99%	139	516
						90%	5	136
						40%	165	440
HPAMV95	1014003	494	blastx.2	metalloproteinase inhibitor precursor [Homo sapiens]	gb AAA59581.1	100%	54	713
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60%	317	183
						40%	159	67
						63%	181	149
HPDRB63	1014204	496	blastx.2	zinc finger protein C2H2-25 [Homo sapiens]	gb AAA93261.1	60%	2	781
						65%	2	646
						59%	2	679
						53%	2	766

HNHG166	1014252	497	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	49%	47	766
HDPN96	1014432	498	blastx.2	interferon-gamma induced protein [Homo sapiens]	gb AAA58683.1	46% 68% 66%	50 2 2	775 313 232
HPCTH41	1014485	499	blastx.2	(AB014888) MRJ [Homo sapiens]	dbj BAA32209.1	98%	2291	2467
HPCTY73	1014646	500	blastx.2	glycyl tRNA synthetase [Homo sapiens]	dbj BAA06338.1	99% 85% 39% 33%	416 1535 1574 536	1741 2434 2413 1624
HCOPQ33	1014730	501	blastx.2	SOX9 [Homo sapiens]	emb CAA86598.1	100%	168	890
HOEBR36	1014754	502	blastx.2	(AF180801) peroxisomal long chain acyl-CoA thioesterase 1b [Mus musculus]	gb AAF13872.1	92% 100%	1 83	123 2299
HOEER36	1014869	504	blastx.2	(AF172066) retinoic acid repressible protein [Homo sapiens]	gb AAD49745.1 AF1 72066_1	100%	75	794
HE8OX75	1015010	505	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	53% 54% 85%	328 246 110	158 112 48
HVASI06	1015024	506	blastx.2	(AK000178) unnamed protein product [Homo sapiens]	dbj BAA90992.1	100% 31% 96% 100%	106 619 35 1083	1086 1206 109 1106

HDPXP07	1015059	507	blastx.2	(AK000370) unnamed protein product [Homo sapiens]	dbj BAA91118.1	64%	3	215
HE2KH02	1015093	508	blastx.2	(AL137756) hypothetical protein [Homo sapiens]	emb CAB70908.1	99%	1	615
HSPSI60	1015133	509	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	67%	5	319
HOCOC26	1015143	510	blastx.2	(AE001691) conserved hypothetical protein [Thermotoga maritima]	gb AAD35130.1 AE001691_4	40% 41%	136 136	690 543
HHEDC05	1015204	511	blastx.2	Lipoprotein RipA precursor. [Escherichia coli]	dbj BAA35276.1	98%	867	61
HODES86	1015304	512	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	57%	125	364
HOPJU57	1015324	513	blastx.2	SELENOPROTEIN W.	sp O15532 SELW_HUMAN	98%	934	1164
HVCAC71	1015343	514	blastx.2	alcohol dehydrogenase class III [Homo sapiens]	gb AAA51597.1	99%	41	1204
HSXCO55	1015360	515	blastx.2	coronin-like protein [Schizosaccharomyces pombe]	emb CAB11184.1	33% 28% 30% 24% 30%	159 1258 2063 991 1533	971 1575 2428 1263 1736
HLWDB78	1015430	516	blastx.2	(AK001322) unnamed protein product [Homo sapiens]	dbj BAA91623.1	95% 56%	30 613	602 681

HPCQU04	1015563	517	blastx.2	sapiens] (AF093414) estrogen response element binding protein [Saguinus oedipus]	gb AAC77437.1	98% 73% 77% 30%	315 1232 1309 282	1232 1390 1362 518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	99% 42% 45% 38% 37% 37% 36% 34%	122 290 467 458 467 473 473 467	1054 1054 1018 1030 1030 1024 1024 1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus musculus]	dbj BAA18947.1	41% 32%	139 815	549 970
HMWTU46	1015814	520	blastx.2	(AF148457) heterogeneous nuclear ribonucleoprotein, alternate transcript [Homo sapiens]	gb AAI04487.1 AF1 48457_1	99%	232	1152
HSXCQ19	1015994	521	blastx.2	(AC006486) BC85722_1 [Homo sapiens]	gb AAD11988.1	90% 37% 25% 29% 30% 28% 25% 47%	3 880 30 515 595 15 63 523 341	1175 1203 515 867 299 284 888 397
HNOAG06	1016272	522	blastx.2	(AF001947) U4U6- associated RNA	gb AAC09069.1	100%	340	546

HE2KN09	1016351	523	blastx.2	splicing factor [Homo sapiens] (AF095446) syndesmos [Gallus gallus]	gb AAF29566.1 AF095446.1	75%	24	680
HISDH58	1016740	524	blastx.2	(AF060570) rig-1 protein [Mus musculus]	gb AAD11628.1	70% 65% 48%	69 55 1058	1313 210 1222
HSPSB62	1016768	525	blastx.2	(AB016533) nuclear protein containing a WW domain (Npw38) [Homo sapiens]	dbj BAA76400.1	100%	196	990
HE2FR37	1016939	526	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	73%	247	726
HBJHU33	1017051	527	blastx.2	(AK001775) unnamed protein product [Homo sapiens]	dbj BAA91901.1	99%	82	618
HCOQZ88	1017227	528	blastx.2	(AF027299) protein 4.1-G [Homo sapiens]	gb AAC16923.1	100% 47%	225 3	1196 722
HNTSV21	1017374	529	blastx.2	seryl-tRNA synthetase [Homo sapiens]	emb CAA62635.1	95% 90%	712 3	1008 32
HNORH33	1017461	530	blastx.2	(AJ132637) ATP-dependent metalloprotease YME1L [Homo sapiens]	emb CAB51858.1	99%	255	2063
HUFEF35	1017565	531	blastx.2	precursor polypeptide (AA -21 to 782) [Homo sapiens]	emb CAA33261.1	99% 100% 35%	303 257 1083	2123 3048 1166

HJPCG39	1017694	532	blastx.2	(AF118078) PRO1848 [Homo sapiens]	gb AAAF2022.1 AF1 18094_17	65%	17	139
HISBM03	1017772	533	blastx.2	(AF092576) translation initiation factor eIF3 p40 subunit, 1	gb AAC84044.1	45%	142	240
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6 fatty acid desaturase [Homo sapiens]	gb AAD31282.1 AF1 34404_1	100%	751	924
HPRAJ96	1017825	535	blastx.2	growth-regulating protein [Homo sapiens]	gb AAA18898.1	88% 83%	14 505	532 885
HBXFX71	1018032	536	blastx.2	(AF071081) proline- rich mucin homolog [Mycobacterium tuberculosis]	gb AAD41594.1 AF0 71081_1	100% 100%	690 653	824 685
HMVDD8 1	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477_1	32% 30%	1 1	597 633
HVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	99%	23	745
						100% 100% 32% 21% 32% 45% 24%	143 1330 1303 662 134 1822 5	1327 1857 1455 1336 346 1914 295
HNNB157	1018243	539	blastx.2	(AK000372) unnamed protein product [Homo sapiens]	dbj BAA91120.1	54% 28% 30%	194 355 363	45 230 244
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa splicing factor, SPF 30 [Homo sapiens]	gb AAC64086.1	100%	186	899
HCQAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	100%	104	436

8				protein product [Homo sapiens]		100%	1198 1381	1293 1455
HVVCY25	1018772	542	blastx.2	almost identical to nRNP M protein, acc.L03532 [Homo sapiens]	emb CAA50897.1	96%	409 418 394 418	1059 792 711 810
HCOMB65	1018802	543	blastx.2	d 6802.2 (myosin, heavy polypeptide 9, non-muscle) [Homo sapiens]	emb CAB05105.1	99%	332	1204
						100%	1803	2600
						100%	1204	1800
						26%	1725	2486
						63%	19	246
						23%	332	1237
						23%	335	1243
						25%	341	1183
						23%	332	1156
						23%	1803	2588
						22%	332	1147
						22%	332	1195
						25%	332	1195
						23%	332	1201
						23%	299	1249
						22%	1734	2531
						23%	1204	1746
						27%	1207	1791
						21%	1219	1767
						22%	335	1198
						30%	1258	1788
						22%	1794	2588
						23%	491	1204
						19%	335	1237

	23%	1291	1824
	25%	1285	1815
	40%	138	470
	22%	332	1198
	23%	290	919
	23%	1192	1800
	22%	338	1246
	18%	1219	1773
	22%	353	1210
	25%	1204	1791
	25%	1219	1788
	22%	1809	2435
	23%	320	1249
	23%	1806	2477
	26%	1204	1791
	23%	1806	2471
	18%	1809	2489
	21%	1207	1785
	18%	332	1237
	19%	1207	1794
	27%	1881	2486
	22%	1833	2480
	22%	1207	1800
	23%	1219	1872
	20%	1195	1788
	23%	1219	1776
	23%	1339	1785
	26%	1222	1800
	26%	1806	2462
	23%	1210	1800

								22%	1204	1788
								23%	1237	1803
								18%	1189	1767
								25%	611	1183
								25%	1228	1473
								29%	1222	1440
								31%	1714	1800
								35%	67	228
								27%	1684	1803
								31%	115	237
								28%	61	216
								26%	67	225
								24%	258	401
								19%	34	234
								28%	249	344
								26%	1192	1305
HVVCF30	1018907	544	blastx.2	(AF010144) neuronal thread protein AD7c- NTP [Homo sapiens]	gb AAC08737.1			53%	121	387
								61%	118	294
								69%	149	295
								62%	3	131
								59%	284	349
								53%	42	128
								47%	282	380
HODBV21	1018943	545	blastx.2	(AC004537) similar to tumor suppressor p33ING1; similar to AF044076 (PID:g2829208) [Homo sapiens]	gb AAC12956.1			99%	151	861
HCHMD81	1019326	546	blastx.2	(AL023859) tma-	emb CAA19575.1			42%	733	945

HAZAR95	1019338	547	blastx.2	splicing endonuclease subunit [Schizosaccharomyces pombe]	emb CAA42641.1	29%	85	423
HMWFS1	1019409	548	blastx.2	phosphate carrier protein [Homo sapiens] (AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	100%	110	1192
HE8SD82	1019585	549	blastx.2	(AL035494) dJ635G19.2.1 (novel protein (isoform 1)) [Homo sapiens]	emb CAB44749.1	41% 54% 42% 59%	314 71 648 13	607 277 704 570
HSPSN08	1019608	550	blastx.2	(AF161491) HSPC142 [Homo sapiens]	gb AAF29106.1 AF161491.1	100% 99%	134 918	919 1235
HVCAH24	1019749	551	blastx.2	(AC002394) Unknown gene product [Homo sapiens]	gb AAC05810.1	100%	103	468
HIPCF71	1019892	554	blastx.2	(AK000566) unnamed protein product [Homo sapiens]	dbj BAA91259.1	98%	234	830
HVCAE76	1019942	555	blastx.2	zinc finger protein [Rattus norvegicus]	emb CAA42610.1	48% 34% 50% 63%	576 72 1 89	2075 731 90 121
HOCMH14	1020007	556	blastx.2	(AL137618) hypothetical protein [Homo sapiens]	emb CAB70844.1	99% 78% 42%	298 1146 1871	1311 1730 1984
HPDRZ03	1020130	557	blastx.2	CCAAT-box DNA binding protein subunit	gb AAA59930.1	100%	131	751

HOCPO73	1020180	558	blastx.2	NF-YB [Homo sapiens] protein p84 [Homo sapiens]	gb AAA53571.1	93% 97% 100% 42% 37%	3646 3881 3993 1832 1888	2024 3636 3940 1758 1841
HNKDT10	1020832	559	blastx.2	(AF191018) E2IG3 [Homo sapiens]	gb AAF09482.1 AF1 91018.1	99% 93%	77 426	436 569
HWHGO2 5	1020841	560	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942.1	68%	3	137
HWMNE3 1	1020852	561	blastx.2	(AF083384) 45kDa splicing factor, SPF 45 [Homo sapiens]	gb AAC64085.1	98%	169	675
HUSYJ75	1020878	562	blastx.2	(AJ242540) hydroxyproline-rich glycoprotein DZ- HRGP [Volvox carteri f. nagartensis]	emb CAB62280.1	33% 35% 34% 32% 34% 32% 31% 32% 29% 31% 30% 28% 34% 31%	67 67 67 67 67 67 67 67 64 67 64 64 184 981	684 624 624 684 624 714 696 624 714 654 654 696 624 783 118
HSDFS07	1020904	563	blastx.2	(AL033534) hypothetical serine-rich secreted protein	emb CAA22127.1	27%	981	118

HCOP09	1021208	564	blastx.2	[Schizosaccharomyces pombe] (AJ245905) HSBP1-like protein [Chlorocebus aethiops]	emb CAB55759.1	95%	183	305
HVVB722	1021323	565	blastx.2	hnRNP G protein [Homo sapiens]	emb CAA80599.1	100%	936	1649
HAMFW6	1021327	566	blastx.2	(AF075704) neuronal glutamine transporter [Rattus 1]	gb AAAF34240.1 AF075704_1	89% 89% 100%	20 949 15	937 1227 53
HPMBW8	1021661	567	blastx.2	(AF129756) G4 [Homo sapiens]	gb AAD18083.1 AAAD18083	85%	3	614
HOFMK02	1021666	568	blastx.2	(AF038616) small tumor antigen t-ag [Simian virus 40]	gb AAC59341.1	100%	159	230
HOUHK71	1021682	569	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75%	429	268
HCOOW2	1021759	570	blastx.2	(AJ011376) hypothetical protein [Homo sapiens]	emb CAB66159.1	30%	210	689
HACMT02	1021794	571	blastx.2	ORF_o109 [Escherichia coli]	gb AAA79814.1	100%	209	3
HISDS67	1022018	572	blastx.2	(AK000633) unnamed protein product [Homo sapiens]	dbj BAA91298.1	60% 36% 43% 28% 24% 30% 38%	22 1139 1130 890 417 1277 1344	339 1318 1225 1327 950 1522 1484

HOVAA59	1022037	573	blastx.2	(AC002291) Similar ATP-dependent RNA Helicase [Arabidopsis thaliana]	gb AAC00620.1	27% 48% 28% 41% 59% 33% 31% 39% 21% 46% 29% 27% 38% 36%	1232 682 1285 1143 252 1765 1316 1573 1744 1417 1744 1736 1447 1718	1372 682 1455 1193 1319 2421 1585 1770 2211 1506 1917 1966 1536 1813
HOCPL72	1022059	574	blastx.2	(AK001197) unnamed protein product [Homo sapiens]	db BAA91548.1	97% 92%	38 2402	1063 2440
HCOMM05	1022082	575	blastx.2	epidermal growth factor receptor kinase substrate [Homo sapiens]	gb AAAG62280.1	46% 43% 23%	445 115 43	840 435 222
HLYDC86	1022162	576	blastx.2	(AF015040) NUMB protein [Homo sapiens]	gb AAD01548.1	100% 100%	3 839	836 1570
HTLEP21	1022167	577	blastx.2	(AF081280) nucleoplasm-3 [Homo sapiens]	gb AAC31609.1	97% 100%	101 33	445 95
HVCAS77	1022313	578	blastx.2	ribonuclease H1 large subunit [Homo sapiens]	emb CAB09725.1	99%	176	1072
HSKJP93	1022663	580	blastx.2	(AI.050022) hypothetical protein	emb CAB43242.1	100%	2	247

HAZAA64	1022719	581	blastx.2	[Homo sapiens] predicted using Genefinder; Similarity to Prototheca 1.1 gene; cDNA EST yk386c1.3 comes from this gene; cDNA EST yk38	emb CAA99938.1	43%	304	705
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint cluster region protein 1 [Homo sapiens]	gb AAC08964.1	89%	164	580
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger protein 216 splice variant 1 [Homo sapiens]	gb AAC42601.1	100%	428	1066
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo sapiens]	emb CAA72297.1	100%	50	1030
HDTCC55	1023046	585	blastx.2	(AL117483) hypothetical protein [Homo sapiens]	emb CAB55956.1	33% 35% 42%	306 4 105	533 105 182
HOOTQ91	1023049	586	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	63%	3	530
HCE4K28	1023227	587	blastx.2	(AF021792) Bcl- X/Bcl-2 binding protein [Homo sapiens]	gb AAB72092.1	98%	262	750
HPDVY62	1023264	588	blastx.2	DOCK180 protein [Homo sapiens]	dbj BAA09454.1	99%	2	1126
HLHDK42	1023339	589	blastx.2	modifier 2 [Mus musculus]	emb CAA40012.1	61% 85%	58 3	300 62
HLDRQ55	1023375	590	blastx.2	coiled-coil like protein	gb AAB61902.1	98%	5	388

HVVB106	1023414	591	blastx.2	1 [Mus musculus] (AF064603) GA17 protein [Homo sapiens]	gb AAC17108.1	97% 96%	93 1359	647 637
HOCME51	1023422	592	blastx.2	(AK001103) unnamed protein product [Homo sapiens]	dbj BAA91503.1	98% 96% 97%	14 319 498	313 492 623
HPDOP74	1023531	593	blastx.2	(AF104670) cell cycle protein [Homo sapiens]	gb AAD05561.1	100%	173	1354
HMSOH12	1023545	594	blastx.2	chaperonin-like protein [Homo sapiens]	gb AAA61061.1	100%	1	1077
HOPJG50	1023584	595	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	157	507
HOUAB04	1023585	596	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	21	371
HVCAA38	1023632	597	blastx.2	TREB protein [Homo sapiens]	emb CAA39149.1	100%	36	818
HIBCN87	1023837	598	blastx.2	(AF006264) recombination and sister chromatid cohesion protein homolog [Homo sapiens]	gb AAD01193.1	96% 92% 79% 100% 67% 28% 33% 40% 38% 36% 35%	1 1160 1332 1582 969 88 202 250 1169 331 969	1017 1300 1478 1665 1070 972 471 417 1315 510 1028
HPCON04	1024000	599	blastx.2	vacuolar H ⁺ ATPase E subunit [Homo sapiens]	emb CAA53814.1	100%	141	818

HPAME01	1024332	601	blastx.2	(AL109978) hypothetical protein [Homo sapiens]	emb CAB53376.1	98%	804	1061
HTTJS76	1024472	602	blastx.2	N-WASP [Homo sapiens]	dbj BAA20128.1	97% 68%	3 6	392 44
HCOR157	1024556	603	blastx.2	39 kDa encoded by N33 [Homo sapiens]	gb AAB18374.1	97%	200	1231
HNORG50	1024624	604	blastx.2	(AF006084) p41-Arc [Homo sapiens]	gb AAB64189.1	98%	198	275
HWLVIR07	1024915	605	blastx.2	(AL050273) hypothetical protein [Homo sapiens]	emb CAB43374.1	66% 100%	62 203	1027 1112 517
HOPKF60	1025047	606	blastx.2	(AF249366) epsilon- COP protein [Homo sapiens]	emb CAB55628.1	100%	48	971
HBDAD74	1025102	607	blastx.2	(AL031640) /prediction=(method:"" genscan"" version:""1.0"" , 1 1 1 target:SPTREMBL::O6 087	emb CAA21052.1	39%	2	403
HPCTY12	1025231	608	blastx.2	(AB015597) kTIM1 [Homo sapiens]	dbj BAA36499.1	96%	68	1225
HFASF12	1025327	609	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	64%	251	3
HLJBM71	1025359	610	blastx.2	(AF110776) adrenal gland protein AD-003 [Homo sapiens]	gb AAFI4859.1 AF1 10776_1	98% 100%	183 512	512 766

HNOKW2 7	1025366	611	blastx.2	F35C11.4 [Caenorhabditis elegans]	emb CAA90244.1	30% 31%	162 743	632 1060
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024- iso [Homo sapiens]	gb AAD39840.1	88% 90%	313 564	387 623
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo sapiens]	emb CAA45218.1	100%	175	1296
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus musculus]	gb AAC52275.1	96% 40%	124 1391	1473 1495
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	100%	444	719
HOCYP47	1025965	616	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	99% 92%	1567 1337	2760 1594
HOVKE20	1025990	617	blastx.2	follicle-stimulating protein FLRG [Homo sapiens]	gb AAC64321.1	100%	36	824
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo sapiens]	gb AAC97189.1	100%	123	497
HE8CH59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	100% 100% 31% 36%	1913 1654 1994 2405	2632 1848 2689 2755
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces pombe]	emb CAB10854.1	55% 76% 42% 40%	488 389 272 92	616 439 376 202

HMUAQ0 5	1026913	622	blastx.2	(AF151825) CGI-67 protein [Homo sapiens]	gb AAD34062.1 AF1 51825_1	74%	54	524
HCOMA45	1026979	623	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	51% 66%	557 601	378 566
HE2K145	1027007	624	blastx.2	(AF161553) HSPC068 [Homo sapiens]	gb AAF29040.1 AF1 61553_1	99%	6	1565
HODDO66	1027207	625	blastx.2	S-adenosylmethionine synthetase [Homo sapiens]	emb CAA48726.1	78% 94% 52%	35 865 7	241 975 63
HVVAT45	1027269	626	blastx.2	(AF102265) N- acetylglucosamine- phosphate mutase [Homo sapiens]	gb AAC72409.1	100% 100%	275 74	1117 277
HVCAG18	1027484	627	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1	100%	22	393
HPTXK72	1027486	628	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1	100%	91	462
HDTLR06	1029191	630	blastx.2	(AF132552) BeDNA.GM01838 [Drosophila melanogaster]	gb AAD27851.1 AF1 32552_1	73%	123	1004
HPAMG11	1029484	631	blastx.2	BB1 =malignant cell expression-enhanced gene/tumor 1 line, Peptide, 342 aa [Homo sapiens]	gb AAB37433.1	99%	2	667

HSDJR27	1030870	632	blastx.2	(AL137520) hypothetical protein [Homo sapiens]	emb CAB70786.1	100%	52	1176
HOCPL33	1030871	633	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	32% 35% 33% 32% 45% 34% 48% 36%	1097 1037 1040 1094 1429 1429 1899 1881 566 74	1516 1429 1420 1429 1899 1881 640 130
HPCQN80	1030963	634	blastx.2	ha1025 is new [Homo sapiens]	dbj BAA07552.1	99% 96%	95 1	2158 96
HODFZ16	1031085	636	blastx.2	(AB033168) nuclear protein ZAP [Mus musculus]	dbj BAA85182.1	86%	349	462
HWGAE28	1031316	637	blastx.2	member of DEAD box protein family [Homo sapiens]	emb CAA49992.1	99%	52	2271
HOFNZ21	1031328	638	blastx.2	valosin-containing protein [Sus scrofa]	gb AAA31142.1	65%	259	423
HOOK425	1031329	639	blastx.2	(AC004472) TERA_HUMAN [Homo sapiens]	gb AAC07984.1	100%	279	2696
HDITL75	1031435	640	blastx.2	(AK000031) unnamed protein product [Homo sapiens]	dbj BAA90894.1	99%	22	1092

HPR5B55	1031451	641	blastx.2	(AF168418) activating signal cointegrator 1 [Homo sapiens]	gb AA01278.1	99%	9	1751
HPDPY36	1031606	642	blastx.2	(AF125182) single- strand selective monofunctional uracil DNA glycosylase [Homo sapiens]	gb AAD17301.1	100%	512	631
HETJ47	1031922	643	blastx.2	(AF020797) AP-mu chain family member mu1B [Homo sapiens]	gb AAD25870.1 AF0 20797_1	99%	60	1328
HIMAM121	1031988	644	blastx.2	hypothetical protein Rv0712 [Mycobacterium tuberculosis]	emb CAB06436.1	41%	365	1204
HCOQQ85	1032475	645	blastx.2	S100 calcium-binding protein A13 (S100A13) [Homo sapiens]	emb CAA68188.1	100%	379	672
HE2DQ62	1033653	646	blastx.2	putative T1/ST2 receptor binding protein precursor [Homo sapiens]	gb AAC50419.1	98%	105	785
HEBAE89	1034320	647	blastx.2	(AK000264) unnamed protein product [Homo sapiens]	dbj BAA91040.1	97%	260	400
HKDBF43	1034471	648	blastx.2	(AL049705) hypothetical protein [Homo sapiens]	emb CAB41269.1	100%	48	431
HVVCT43	1034539	649	blastx.2	novel ORF [Homo sapiens]	gb AAB72234.1	91% 100%	700 633	801 698

HTTDR30	1035435	650	blastx.2	(AF214634) polyA binding protein [Homo sapiens]	gb AAFI9993.1 AF214634_1	91%	806	841
HODGO46	1035602	651	blastx.2	unknown protein [Homo sapiens]	gb AA88036.1	48%	693	986
HNTTB23	1035988	652	blastx.2	(AJ246001) spastin protein [Homo sapiens]	emb CAB60141.1	38%	468	115
HVVVBV73	1036583	653	blastx.2	(AF013249) leukocyte-associated Ig-like receptor-1 [Homo sapiens]	gb AB69324.1	99%	93	974
HTEPV42	1036973	655	blastx.2	(AK001738) unnamed protein product [Homo sapiens]	dbj BAA91872.1	100%	439	1299
						99%	1	435
HFTCG52	1037108	656	blastx.2	(AF117723) seed maturation protein PM27 [Glycine max]	gb AAD30426.1 AF117723_1	30%	286	786
HKA0B40	1037131	657	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	32%	73	357

HPDVE37	1037303	658	blastx.2	cathepsin C [Homo sapiens]	emb CAA60671.1	100%	118	885
HTLES74	1037438	659	blastx.2	GAP-associated protein p190 - rat	pir A38218 A38218	74% 56% 63% 41%	50 681 15 43	811 875 152 171
HCORG51	1037480	660	blastx.2	ubiquitin-like protein [Bos taurus]	gb AAB49682.1	100%	150	434
HPAMM7 2	1038344	661	blastx.2	nucleoside-diphosphate kinase [Homo sapiens]	emb CAA68877.1	99%	44	520
HKZAT03	1038378	662	blastx.2	endothelial cell growth factor [Homo sapiens]	gb AAA60043.1	100%	114	1559
HDQMA8 5	1038717	663	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100% 100%	234 110	356 235
HVCCQ82	1038718	664	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100%	114	578
HTGFP54	1038915	665	blastx.2	(AL080156) hypothetical protein [Homo sapiens]	emb CAB45747.1	94%	415	525
HBODF41	1039017	666	blastx.2	beta-spectrin [Homo sapiens]	gb AAA60580.1	99% 20% 21% 22% 19% 22% 60%	1 7 28 16 1 184 2127	2172 2091 2151 2187 2118 2193 2351
HPAMC60	1039290	668	blastx.2	TRAF4-associated factor 2 [Homo sapiens]	gb AAD24202.1 U83194_1	100%	31	1242

HLMHM8 3	1039491	669	blastx.2	sapiens] (AK001123) unnamed protein product [Homo sapiens]	dbj BAA01513.1	44%	158	616
HOUDK70	1039538	670	blastx.2	sapiens] (AF091083) unknown [Homo sapiens]	gb/AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb/AAB81199.1	54% 100%	808 1	993 48
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb/CAA11683.1	100%	54	659
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb/AAC50331.1	100%	135	1649
HOPID35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb/AAC04509.1	100%	121	1353
HTFNP84	1039748	676	blastx.2	ect2 [Mus musculus]	gb/AAA37536.1	94% 42%	73 27	1227 125
HTHDT76	1039871	677	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb/CAB55905.1	98%	7	564
HSVEC21	1039891	678	blastx.2	adenosine triphosphatase [Homo sapiens]	gb/AAA35999.1	99% 96% 37%	432 1 3819	2372 435 3890
HKGCO25	1040384	679	blastx.2	NAP [Homo sapiens]	gb/AAC37544.1	99%	3	665
HNOIN70	1040385	680	blastx.2	(AF062594) nucleosome assembly protein [Rattus norvegicus]	gb/AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb/AAF30180.1	88% 92%	449 145	832 504

HJBDC89	1040569	682	blastx.2	nonhepatic arginase [Homo sapiens]	dbj BAA13158.1	100%	113	661
HTALX75	1040591	683	blastx.2	(AK000897) unnamed protein product [Homo sapiens]	dbj BAA091413.1	47%	303	557
HODBO29	1040620	684	blastx.2	thioesterase II [Homo sapiens]	emb CAA60024.1	63%	84	527
HOCOF27	1040631	685	blastx.2	zinc-finger helicase [Homo sapiens]	gb AAC39923.1	91%	277	687
HSPSE88	1040694	686	blastx.2	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	100%	110	922
HSKXM78	1040826	687	blastx.2	(AK001550) unnamed protein product [Homo sapiens]	dbj BAA091751.1	63%	1	654
HNLMB92	1040913	688	blastx.2	protein of unknown function [Homo sapiens]	gb AA63232.1	96%	355	666
HE8ON57	1040925	689	blastx.2	(AF005855) anon2A5 [Drosophila melanogaster]	gb AAB81486.1	26%	50	415
HOCOC14	1040932	690	blastx.2	protein antigen [synthetic construct]	emb CAA01182.1	100%	539	1384
HOGDF49	1041049	691	blastx.2	ben92 [Drosophila subobscura]	emb CAB55311.1	55%	226	474
HOFMK22	1041070	692	blastx.2	(AF161479) HSPC130 [Homo sapiens]	gb AAF29094.1 AF1 61479_1	94%	3	356
HIBGN169	1041900	693	blastx.2	NF-A13 gene product [Homo sapiens]	gb AAA79175.1	100%	111	428
						71%	3	212
						39%	421	612

HSPS142	1042462	694	blastx.2	ubiquitin-activating enzyme E1 [Homo sapiens]	gb AAA61246.1	40%	455	586
						100%	259	3432
HPDQD23	1042649	695	blastx.2	(AF055470) ZNF258 [Homo sapiens]	gb AAD15797.1	65%	174	338
HWMB10	1042859	696	blastx.2	Met-18 protein [Homo sapiens]	dbj BAA03074.1	95%	2717	2256
HETKL27	1042951	698	blastx.2	unknown [Homo sapiens]	gb AAA76738.1	40%	188	637
HPCTH04	1043273	699	blastx.2	ATL-derived factor/thioredoxin [Homo sapiens]	emb CAA54687.1	100%	180	494
HVVB094	1043532	701	blastx.2	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	emb CAA30678.1	100%	52	852
HVVBC43	1043553	702	blastx.2	(AB000468) zinc finger protein [Homo sapiens]	dbj BAA19122.1	100%	301	870
HTPDM31	1044199	703	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir A24264 A24264	31%	632	48
						34%	584	51
						33%	632	138
						34%	620	225
						53%	742	659
						39%	790	659
						39%	790	659

HSQEK12	1044577	704	blastx.2	similar to Human Sp2 protein (M97190) [Homo sapiens]	dbj BAA05923.1	41% 38%	790 790	662 662
HPDRZ16	1044618	705	blastx.2	(AF106473) leucine-rich-domain inter-acting protein 1; LeR 1	gb AADI7989.1	89% 48%	53 1	439 93
HVCBC44	1044635	706	blastx	CTP synthetase homolog [Mus musculus]	gb AABI7729.1	72%	424	834
HPIAC22	1044711	707	blastx.2	D-E-A-D box protein [Drosophila melanogaster]	gb AAC14192.1	77%	3	896
HSODA53	1044741	708	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	42% 47%	749 20	1738 493
HE9ML74	1044760	709	blastx.2	coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 11 coded for by C. elegans cDNA yk46e8.3; coded for	gb AAB00699.1	68% 73%	1316 1101	1657 1319
HPDRB76	1044762	710	blastx.2	adenylate kinase 2B [Homo sapiens]	gb AAC13881.1	77% 41% 52% 21% 31%	940 465 6 315 450	1269 932 260 614 593
HSYDI55	1044769	711	blastx.2	(AF151819) CGI-61 protein [Homo sapiens]	gb AAD34056.1 AF151819_1	100%	160	855
HOGCI31	1044821	712	blastx.2	(AL110271) hypothetical protein [Homo sapiens]	emb CAB53709.1	100% 97% 96%	309 1067 34	1067 1174 558

HNOKX86	1044893	713	blastx.2	(AF092138) HSPC033 [Homo sapiens]	gb AAD40380.1	100%	303	575
HTPHG81	1045117	714	blastx.2	(AL117402) hypothetical protein [Homo sapiens]	emb CAB55903.1	100%	537	1538
HPCTV49	1045379	715	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	100%	127	444
HHGDK68	1045464	716	blastx.2	(AL020993) dj5O6.1 (casein kinase 1, epsilon) [Homo sapiens]	emb CAA15888.1	89% 100%	124 765	858 1013
HNOKM3 8	1045500	717	blastx.2	transducin (beta) like 1 protein [Homo sapiens]	emb CAA73319.1	99%	120	1640
HHFUN47	1045842	718	blastx.2	(AF099028) putative transmembrane protein cmp44E [Drosophila melanogaster]	gb AAD12254.1	49% 52% 27% 83%	2 2 1007 865	1135 952 2368 882
HE9E182	1046856	722	blastx.2	beta-signal sequence receptor [Homo sapiens]	dbj BAA07206.1	96%	24	173
HODHS68	1047137	724	blastx.2	(AK000826) unnamed protein product [Homo]	dbj BAA91390.1	99%	528	1220

HOPKT59	1047169			blastx.2	sapiens] p23 [Homo sapiens]	gb AAA18537.1		335	814
HMCFF45	1047212		725	blastx.2	(AF182844) VP528 protein [Homo sapiens]	gb AAF00499.1 AF1 82844_1	100%	124	786
HP1AN63	1047381		726	blastx.2	(AF011792) cell cycle progression 2 protein [Homo sapiens]	gb AAB69312.1	100%	206	586
							94%	586	786
							78%	770	892
							26%	107	505
							38%	762	935
							30%	589	687
HNSME49	1047403		727	blastx.2	predicted using Genefinder [Caenorhabditis elegans]	emb CAB04731.1	55%	114	554
HWEAC64	1047473		728	blastx.2	ORF X (AA 1 - 393) [Escherichia coli]	emb CAA31134.1	98%	167	700
HOCQ151	1047483		729	blastx.2	(AB034912) WD- repeat like sequence [Homo sapiens]	dbj BAA92312.1	99%	99	1004
							96%	967	1479
							46%	939	977
							46%	1081	1119
HOPKE15	1047634		730	blastx.2	putative RNA-binding protein [Schizosaccharomyces pombe]	emb CAB11047.1	36%	509	1432
							30%	141	401
HMAEL73	1047646		731	blastx.2	(AL157427) hypothetical protein [Homo sapiens]	emb CAB75652.1	100%	754	2463
HNOKE42	1047663		732	blastx.2	(AF116272) T-cell activation protein [Homo sapiens]	gb AAD38498.1 AF1 16272_1	100%	65	445

HIOAE31	1047670	734	blastx.2	ubiquinol--cytochrome reductase (EC 1.10.2.2) 11K protein - bovine	pij A00119 CCBO11	93% 92%	2 180	181 221
HNOAC93	1047820	736	blastx.2	(AB016092) RNA binding protein [Homo sapiens]	dbj BAA83718.1	100%	69	305
HMEJA45	1047848	737	blastx.2	(AF091242) ATP sulfurylase/APS kinase 2 [Homo sapiens]	gb AAC64583.1	87%	166	399
HLDAS11	1047937	738	blastx.2	Similar to Human C219-reactive peptide (L34688) [Homo sapiens]	dbj BAA13448.1	99% 91% 32%	233 52 503	958 249 907
HWMB31	1048009	739	blastx.2	DARPP-32=DOPAMINE AND CAMP-REGULATED PHOSPHOPROTEIN.	sp G545790 G545790	94%	169	729
HAZAA31	1048188	740	blastx.2	transketolase [Homo sapiens]	gb AAA98961.1	100% 76%	778 92	1959 1033
HOCMC83	1048300	741	blastx.2	hypothetical protein [Schizosaccharomyces pombe]	emb CAB11599.1	30%	446	1279
HCFC840	1048427	742	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	46%	17	1231
HVCAA65	1048595	743	blastx.2	(AF022815) proteasome subunit XAPC7 [Homo sapiens]	gb AAB81515.1	100%	191	934

HSPS176	1048635	744	blastx.2	proyl 4-hydroxylase alpha (II) subunit [Homo sapiens]	gb AAB71339.1	99%	208	1578
HVVCH35	1048658	745	blastx.2	(AF177385) cytochrome c oxidase assembly protein isoform 2 [Homo sapiens]	gb AAF05313.1 AF1 77385_1	99%	436	1233
HOFNI66	1048739	746	blastx.2	signal peptidase complex 25 kDa subunit [Canis familiaris]	gb AAA21254.1	95%	33	710
HMSK190	1048792	747	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	39% 28% 45% 100%	3258 1452 2039 327	2377 1180 1944 310
HSYBI49	1049151	748	blastx.2	(AF101051) senescence-associated epithelial membrane protein [Homo sapiens]	gb AAD16433.1	100%	173	805
HTXSN37	1049372	749	blastx.2	(AL080159) hypothetical protein [Homo sapiens]	emb CAB45750.1	47% 46%	1154 408	1861 530
HMUBT31	1049466	750	blastx.2	serine palmitoyltransferase, subunit 1 [Homo sapiens]	emb CAA6994.1	100%	11	1429
HFPDO90	1049644	751	blastx.2	Similarity to yeast hypothetical protein PIR accession number	emb CAA94801.1	100%	516	611

				1 1 this gene; cDNA EST yk504c7.3 comes from this gene; cDN construct]						
HVV/CB79	1050102	752	blastx.2	urokinase [synthetic (AL031733) dJ455J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens] interferon regulatory factor 1 [Homo sapiens]	emb/CAA00829.1]	95% 96%	213 1067	1139 1504		
HDPGR19	1050167	753	blastx.2		emb/CAB42866.1]	100%	11	670		
HVVDX63	1050256	754	blastx.2		gb/AAA36043.1]	100%	212	1186		
HNOJA87	1050282	755	blastx.2	NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	sp Q16236 NFL2_HU MAN	99%	643	2415		
HTPGI65	1050419	756	blastx.2	ESX [Homo sapiens]	gb/AAB58075.1]	100%	161	1273		
HHFGN14	1050536	757	blastx.2	DNA binding protein [Homo sapiens]	dbj BA008565.1]	99% 97% 53% 31% 32% 40% 28% 46%	1818 405 121 203 465 3017 1464 2939	2738 995 810 421 833 3136 1784 2983		
HTAIN76	1050553	758	blastx.2	(AF016903) agrin precursor [Homo	gb AAC39776.1]	98% 96%	371 3	1300 416		

HL YBO89	1050702	759	blastx.2	caltractin [Homo sapiens]		36%	614	1252
HMEK182	1050767	760	blastx.2	serine/threonine protein kinase Krs-1 [Homo sapiens]	emb CAA51467.1	32%	614	1291
HOFNX17	1050969	761	blastx.2	annexin I [Oryctolagus cuniculus]	gb AAB17261.1	45%	3	416
HAOSY21	1051095	762	blastx.2	(AF151048) HSPC214 [Homo sapiens]	gb AAC78495.1	31%	3	440
HMWDB3	1051115	763	blastx.2	V-1 protein [Rattus norvegicus]	gb AAF36134.1 AF151048.1	38%	386	721
HAOSZ53	1051246	764	blastx.2	(AF028823) Tax interaction protein 1 [Homo sapiens]	dbj BAA05167.1	40%	426	557
HSODP14	1051256	765	blastx.2	p0071 protein [Homo sapiens]	emb CAA57478.1	26%	98	430
						32%	465	665
						35%	19	198
						27%	1125	1331
						58%	3	38
						40%	541	648
						58%	155	196
						100%	42	557
						95%	196	597
						91%	188	574
						45%	571	672
						85%	174	569
						99%	245	598
						100%	56	403
						82%	244	522
						96%	53	247
						53%	385	624

HWLXZ72	1051319	766	blastx.2	(AK000496) unnamed protein product [Homo sapiens]		dbj BAA91205.1	39% 34% 43%	452 187 84	580 300 152
HUSGQ45	1051410	767	blastx.2	(AK000101) unnamed protein product [Homo sapiens]		dbj BAA90946.1	64% 77%	413 886	159 860
HLDR454	1051437	768	blastx.2	cellular nucleic acid binding protein [Mus musculus]		gb AAB60490.1	100% 86% 51% 51% 38%	18 246 362 175 365 353 365	527 539 676 360 661 598 658
HNOJR48	1051533	769	blastx.2	(AJ251914) putative RNA helicase [Sus scrofa]		emb CAB63856.1	100%	94	1377
HKIXH35	1051883	770	blastx.2	Huntington Disease (HD) gene exon 1 [Homo sapiens]		emb CAA92991.1	65% 47% 40% 56% 42%	5 3194 640 2905 607	82 3250 705 2952 669
HHEB192	1051903	771	blastx.2	mannitol permease [Escherichia coli]		emb CAA24748.1	100%	184	2094
HPTGB84	1051953	772	blastx.2	(AF151871) CGI-113 protein [Homo sapiens]		gb AAD34108.1 AF151871.1	100%	93	668
HVCCD05	1051983	773	blastx.2	neurofibromin [Homo sapiens]		gb AAA59925.1	96%	18	968
HPYSC40	1052158	774	blastx.2	(AL050169) hypothetical protein		emb CAB43305.1	100%	20	583

HDDMT56	1052261	775	blastx.2	[Homo sapiens] (AF110775) adrenal gland protein AD-002	gb/AAF14858.1 AF1 10775_1	100%	158	844
HVVAV0 2	1052553	776	blastx.2	[Homo sapiens] sorcini CP-22 [Homo sapiens]	gb/AAA60588.1	100%	59	652
HOGCS42	1052557	777	blastx.2	(AB000712) CPE- receptor [Homo sapiens]	dbj BAA22984.1	100%	226	852
HAZAA59	1052593	778	blastx.2	CUG-BP/hNab50 [Homo sapiens]	gb/AAC50895.1	90%	50	745
HMALJ21	1052874	780	blastx.2	(AC002397) C9 [Mus musculus]	gb/AAC36017.1	52% 49% 40%	632 243 1826	1033 650 1915
HL YAR61	1053037	781	blastx.2	nuclear protein essential for dosage compensation [Caenorhabditis elegans]	gb/AAA92286.1	64%	282	431
HLTCQ80	1053164	782	blastx.2	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	gb/AAC39930.1	87%	2	622
HDTDU67	1053171	783	blastx.2	54k protein (AA 1-504) [Canis familiaris]	emb CAA34385.1	100%	512	697
HIMABL01	1053173	784	blastx.2	(AK001782) unnamed protein product [Homo sapiens]	dbj BAA91907.1	100%	609	1289

HIACMU05	1053236	785	blastx.2	(AB002405) LAK-4p [Homo sapiens]	dbj BAA24179.2	99% 100% 60%	1804 1301 815	2631 1813 889
HOVDF79	1053369	786	blastx.2	pumilio protein [Drosophila melanogaster]	gb AAB59189.1	66% 28% 27%	39 42 42	653 518 521
HVVBJ54	1053547	787	blastx.2	CIRP [Homo sapiens]	dbj BAA11212.1	100%	95	610
HOEMU50	1053548	788	blastx.2	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	dbj BAA20422.1	90%	374	532
HE9MO38	1053585	789	blastx.2	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	emb CAA72272.1	100% 48% 53%	77 486 387	220 587 431
HOPJF55	1053725	790	blastx.2	microfibril-associated glycoprotein [Homo sapiens]	gb AAA79920.1	100%	150	698
HAOTD13	1053746	791	blastx.2	casein kinase-II beta [Oryctolagus cuniculus]	gb AAA91892.1	100%	164	808

HOCP134	1053973	793	blastx.2	p0071 protein [Homo sapiens]	emb/CAA57478.1]	98%	1	2334
HFKHC64	1054015	794	blastx.2	(AF058448) herpesvirus entry protein B [Homo sapiens]	gb/AAC23797.1]	99%	178	1614
HOPK037	1054085	795	blastx.2	drebrin E2 [Homo sapiens]	gb/AAA16256.1]	99%	2	1063
HNBVO53	1054122	796	blastx.2	p160 [Homo sapiens]	gb/AAC17708.1]	89% 46% 31% 36% 90% 31% 37%	50 639 1871 883 36 754 952	2332 1403 2380 1119 68 1101 1173
HCQDQ11	1054196	798	blastx.2	cytochrome c oxidase subunit 3 [Homo sapiens]	dbj/BAA77671.1]	93%	25	777
HTFML39	1054230	799	blastx.2	secreted cyclophilin-like protein [Homo sapiens]	gb/AAA36601.1]	100%	226	873
HOGCR32	1054235	800	blastx.2	similar to mouse CCl. [Homo sapiens]	dbj/BAA13194.1]	90% 62% 35%	15 160 128	110 204 169
HFCDL60	1054288	801	blastx.2	(AF005038) secretory carrier membrane protein [Homo sapiens]	gb/AABG2723.2]	99% 66%	152 2	919 46
HODEC13	1054400	802	blastx.2	(AC007059) Human homolog of Mus musculus wizL protein	gb/AAD19818.1]	87%	3	722

HUSYA18	1054451	803	blastx.2	[AA 4-1561] [Homo sapiens] DNA/RNA-binding protein [Homo sapiens]	gb AAA75623.1	89% 28% 76% 39% 47%	35 161 1 591 3	553 484 39 689 59
HOCON42	1054527	804	blastx.2	DYNAMIN 2.	sp P5070 DYN2_HUMAN	95% 74% 30% 28% 38%	545 162 1276 1666 2190	1588 734 1638 1914 2246
HKMNH3 7	1054550	805	blastx.2	(AL031115) ZXDA, ZXDB (zinc finger X-linked protein) [Homo sapiens]	emb CAB36858.1	50%	37	720
HPDWP21	1054662	806	blastx.2	(AF178534) talin [Homo sapiens]	gb AAF27330.1	99% 78%	63 35	797 76
HOGCS52	1054677	807	blastx.2	(AJ245621) CTL2 protein [Homo sapiens]	emb CAB75542.1	99%	36	1388
HWMCK6 0	1054751	808	blastx.2	(AF125099) HSPC038 protein [Homo sapiens]	gb AAD39916.1 AF125099_1	100%	258	485
HWLOU33	1054790	809	blastx.2	lac repressor protein (gag start codon) [Escherichia coli]	gb AA24052.1	96%	18	401
HKZBM58	1054812	810	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	100%	126	584
HTEOV06	1054813	811	blastx.2	sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	95%	317	799

HTEHP29	1055174	813	blastx.2	sapiens] protein related N- terminus of the oncogene [Homo sapiens]	dbj BAA02807.1	97%	7	585
HNOIJ32	1055248	814	blastx.2	PRAJA1 [Mus musculus]	gb AAC00205.1	73% 45% 30% 55%	1084 841 100 1908	1989 1620 948 1985
HFPHF52	1055304	815	blastx.2	(AB006625) The human homolog of a mouse imprinted gene, Peg3. [Homo sapiens]	dbj BAA22956.1	98% 90% 31% 27% 30% 24% 27% 26% 30% 26% 32% 24% 20% 34% 55% 26% 28% 28% 25%	2 1290 251 62 197 11 44 62 146 5 605 278 35 221 1308 1290 1437 596 1287	1348 1682 979 1276 895 1333 1324 1273 895 856 1003 1147 979 484 1445 1676 1676 829 1769

HBNNMF62	1055381	816	blastx.2	(AK000538) unamed protein product [Homo sapiens]				26%	1308	1676
HTPHO72	1055426	817	blastx.2	EF-hand protein [Homo sapiens]				32%	1305	1499
HOPKL18	1055439	818	blastx.2	stromelysin-3 precursor [Homo sapiens]				27%	1398	1676
HTXKD84	1055467	820	blastx.2	Hlark [Homo sapiens]				36%	905	979
								36%	1425	1499
								39%	1596	1679
								34%	1608	1676
								28%	1344	1502
								100%	314	625
								43%	752	859
								100%	98	1048
								100%	2	1438
								97%	111	581
								58%	571	1191
								55%	839	1006
HTXRR82	1055480	821	blastx.2	myosin IC [Dictyostelium discoideum]			gb AA37427.1	42%	522	1310
								32%	1433	1504
HAIBU62	1055582	822	blastx.2	hypothetical protein [Homo sapiens]			emb CAB61393.1	99%	154	1518
HDYAY29	1055632	823	blastx.2	(AJ250865) TESS 2 [Homo sapiens]			emb CAB65119.1	99%	65	625
HCOOD79	1055767	824	blastx.2	(AF118394) mutative [Homo sapiens]			gb AAD45242.1 AF1	98%	201	689

				nucleotide binding protein [Homo sapiens]	18394_1	100%	76	210
HAMHN1 2	1055899	825	blastx.2	Similarity to EGF domain; cDNA EST EMBL:U02406 comes from this gene [Caenorhabditis elegans]	emb CAA94773.1	28% 36%	53 263	559 562
HODIY67	1056000	826	blastx.2	(AF167160) protein inhibitor of activated STAT-1 [Homo sapiens]	gb AAD49722.1 AF167160_1	99%	8	1957
HNTRS57	1056097	827	blastx.2	similar to ankyrin motifs; cDNA EST CEMSH89F comes from this 1 cDNA EST EMBL:D33056 comes from this gene; cDNA EST E	emb CAA99881.1	45%	2	853
HUKFL74	1056102	828	blastx.2	fsh-like protein [Mus musculus]	emb CAA66186.1	98%	1	168
HTBEF05	1056104	829	blastx.2	Wnt7a protein [Homo sapiens]	gb AAC51319.1	100%	9	344
HOPKD19	1056275	830	blastx.2	B-cell receptor associated protein [Homo sapiens]	gb AAB51324.1	100%	188	1084
HLICR58	1056290	831	blastx.2	(AF181467) protein Z-dependent protease inhibitor precursor [Homo sapiens]	gb AAD53962.1 AF181467_1	98%	3	932

HAIJA48	1056400	833	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y3 Q9Y6Y5	100%	7	111
HSKJC61	1056407	834	blastx.2	(AF095448) putative G protein-coupled receptor [Homo sapiens]	gb AAC98506.1	100% 33%	366 265	1436 327
HEEBK29	1056454	835	blastx.2	(AF018081) type XVIII collagen [Homo sapiens]	gb AAC39658.1	95% 42% 43% 42% 46% 44% 45% 44% 38% 36% 26% 38% 35% 34% 37% 31% 25% 36% 44% 44% 29% 29% 32% 40%	1036 1036 1033 1036 1264 1429 1486 1036 1594 1327 1032 743 743 668 3777 1015 3672 3572 658 728 1432 2846 565 4021	3060 2118 2133 2166 2166 2118 2118 1632 2118 2109 2117 940 934 931 4139 1251 4190 3694 771 841 1587 3154 771 4119

	38%	677	784
	37%	749	901
	27%	707	910
	35%	2753	2905
	32%	3524	3607
	50%	3120	3161
	40%	3087	3161
	27%	3789	3971
	50%	3108	3161
	33%	3579	3731
	40%	3087	3164
	40%	2129	1140
	37%	2108	1104
	35%	2129	1056
	38%	2039	1140
	37%	2129	1053
	37%	2015	1140
	39%	2105	1140
	35%	2129	1056
	32%	2108	1164
	35%	1910	1050
	38%	2111	1230
	37%	2108	1368
	38%	2111	1566
	37%	2111	1566
	43%	2039	1692
	43%	2105	1800
	38%	2108	1632
	30%	2707	1859
	37%	2108	1608

43%	2117	1863
30%	2680	2204
32%	1468	1046
32%	2707	2207
45%	4790	4695
28%	2997	2791
52%	3599	3534
32%	2394	2077
48%	3629	3535
37%	4135	3983
27%	2394	1987
29%	2457	2083
29%	3692	3489
51%	2020	1934
32%	3997	3788
33%	3015	2797
36%	3877	3677
32%	3862	3677
48%	3163	3083
28%	2988	2839
29%	4843	4643
33%	2394	2050
32%	1183	1055
30%	894	676
25%	2825	2706
33%	178	80
38%	2892	2785
36%	2157	2050
61%	4128	4090
50%	4131	4090

HCHMM1 9	1056617	836	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	47%	2801	2751
HE8NG02	1056625	837	blastx.2	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	emb CAB55680.1	99%	10	1182
HWHKD2 2	1056654	838	blastx.2	(AF094760) RFXANK [Homo sapiens]	gb AAC69883.1	93%	271	1011
HOCPI87	1056666	839	blastx.2	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	pir A60345 A60345	59%	34	1125
HAAAAA59	1056671	840	blastx.2	(AF151793) ALG-2 interacting protein 1 [Homo sapiens]	gb AAF08220.1 AF1 51793_1	99%	162	2765
HOSBJ18	1056672	841	blastx.2	finger protein 1, placental - human	pir A32891 A32891	56%	6007	6048
HUSGX12	1056736	842	blastx.2	GATA-6 [Homo sapiens]	dbj BAA22621.1	99%	752	2026
HPDRG02	1056764	843	blastx.2	protein disulfide isomerase-related protein [Homo sapiens]	gb AAA58460.1	68%	830	2095
						65%	914	2191
						65%	998	2221
						62%	590	1858
						61%	548	1774
						56%	482	1606
						40%	2203	2322
						61%	2239	2277
						100%	2	838
						99%	26	1405
						42%	26	523
						41%	1031	1366

HKZBB48	1056767	844	blastx.2	(AB022663) HFB30 [Homo sapiens]	dbj BAA78677.1	40%	1055	1327
HHAWB1 9	1056774	845	blastx.2	(AF140242) encephalopsin [Homo sapiens]	gb AAD32671.1 AF1 40242_1	100%	239	1660
HHATP38	1056786	846	blastx.2	VEGF related factor isoform VRF167 precursor [Homo sapiens]	gb AAA91463.1	98%	111	1316
HVVBE07	1056801	847	blastx.2	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	gb AAB61297.1	100%	87	650
HKAHB85	1056804	848	blastx.2	ear-2 gene product [Homo sapiens]	emb CAA31282.1	97% 32%	702 185	983 328
HUSXA15	1056810	849	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	98%	4	831
HNOCH54	1056839	850	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	75% 62%	300 295	205 167
						30% 26% 26% 23% 24% 24% 24% 26%	727 556 727 703 703 706 892 703	1833 1875 1779 1809 1782 1812 1827 1812

	24%	727	1782
	21%	724	1833
	24%	733	1827
	25%	883	1827
	26%	856	1824
	22%	28	1236
	23%	883	1833
	21%	865	1836
	22%	856	1827
	23%	988	1833
	22%	730	1836
	24%	4	852
	25%	1	876
	22%	715	1782
	32%	7	408
	31%	145	690
	24%	31	876
	23%	976	1830
	28%	1	456
	25%	31	852
	22%	16	885
	23%	382	1359
	23%	745	1527
	20%	22	843
	26%	1	906
	28%	7	408
	26%	1	411
	24%	424	1296
	30%	10	411
	23%	724	1251

	25%	259	690
	31%	22	411
	25%	430	1293
	34%	427	681
	21%	1054	1635
	35%	250	501
	24%	427	1251
	24%	430	1311
	30%	1	369
	25%	7	612
	23%	427	1383
	28%	352	678
	23%	730	1782
	31%	250	501
	34%	424	684
	35%	427	681
	24%	1108	1743
	32%	415	681
	26%	430	1356
	26%	313	675
	29%	427	681
	27%	322	690
	27%	322	675
	30%	430	690
	30%	343	693
	36%	1648	1830
	33%	430	684
	31%	412	675
	22%	430	1383
	22%	1369	1929

31%	406	684
29%	1	282
27%	343	675
29%	31	420
22%	430	1401
32%	430	681
27%	337	675
27%	184	411
23%	1012	1635
28%	406	843
26%	337	753
27%	1627	1896
23%	1120	1521
24%	997	1401
34%	430	576
30%	421	675
27%	10	408
24%	1357	1785
31%	430	684
29%	358	681
24%	376	765
25%	1618	1803
29%	427	681
28%	352	681
25%	427	1308
32%	424	678
25%	349	690
29%	259	501
22%	1108	1743
21%	364	1359

	25%	1273	1554
	30%	424	768
	28%	412	720
	25%	961	1383
	30%	427	693
	22%	430	1308
	22%	409	1311
	25%	634	1236
	21%	430	1383
	21%	1123	1458
	31%	427	576
	31%	430	690
	31%	1648	1818
	25%	1267	1698
	27%	427	678
	28%	421	681
	26%	418	654
	28%	1651	1827
	30%	1648	1827
	22%	1072	1401
	24%	1288	1869
	29%	388	573
	27%	424	771
	25%	499	1077
	26%	1621	1953
	22%	1375	1635
	30%	1279	1527
	30%	427	681
	32%	430	681
	25%	430	699

	32%	1660	1812
	25%	1648	1830
	34%	1648	1830
	24%	1333	1782
	23%	415	684
	26%	1648	1827
	26%	1273	1644
	29%	1006	1254
	21%	1009	1527
	29%	418	654
	22%	1282	1533
	23%	1582	1827
	32%	430	678
	28%	148	432
	18%	1117	1488
	27%	1648	1812
	21%	1123	1509
	31%	16	420
	29%	1618	1827
	25%	1123	1527
	27%	1012	1347
	20%	1390	1644
	25%	382	681
	27%	1369	1782
	22%	352	675
	23%	427	1311
	25%	427	678
	32%	430	654
	25%	427	684
	29%	430	693

[illegible]

							20%	907	1245
							25%	1288	1584
							20%	1075	1905
							22%	1120	1383
							21%	1207	1806
							26%	409	675
							25%	28	411
							22%	1285	1509
							26%	16	435
							25%	1648	1917
							23%	1648	1812
							37%	1463	1567
							18%	1072	1530
							21%	1369	1929
							24%	1648	1782
							25%	1642	1782
							22%	1012	1401
							27%	338	454
							22%	1651	1839
							23%	1174	1509
							26%	1357	1734
							23%	1369	1626
							21%	1375	1635
							16%	754	1788
							26%	440	631
							24%	427	798
							25%	1	165
							25%	124	429
							23%	1651	1800
							22%	1648	1830

42%	2018	2095
25%	1	144
34%	1195	1314
22%	979	1362
34%	67	144
30%	1123	1368
20%	1648	1827
28%	897	1091
25%	1318	1458
22%	1468	1929
20%	1648	1827
47%	477	533
53%	1980	2018
23%	1120	1236
33%	993	1175
22%	1651	1827
22%	1648	1827
24%	1375	1509
24%	1910	2092
25%	1733	1837
53%	1648	1692
29%	397	528
20%	1369	1731
27%	1878	2060
31%	1336	1440
25%	1327	1554
23%	1120	1467
21%	1648	1830
43%	2031	2078
40%	1256	1321

HOCPP16	1056856	851	blastx.2	insulin-like growth factor binding protein 2 [Homo sapiens]	gb AA03246.1	50% 45% 27% 25% 100%	814 1863 127 1120 36	849 1928 393 1236 650
HNOAH83	1056862	852	blastx.2	platelet-endothelial tetraspan antigen 3 [Homo sapiens]	gb AA87064.1	100%	90	848
HE2OU10	1056875	853	blastx.2	OTK27 [Homo sapiens]	dbj BAA23363.1	100%	97	480
HODGM4 6	1056927	854	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	68%	5	229
HODFR44	1056990	855	blastx.2	(AL137516) hypothetical protein [Homo sapiens]	emb CAB70782.1	99% 42% 47% 50% 48% 34% 38% 38%	11 14 20 71 14 14 14 38	469 343 319 313 274 403 313 313
HCHND12	1057009	856	blastx.2	(AF121963) receptor tyrosine kinase precursor [Gallus gallus]	gb AAD31764.1 AF121963_1	77% 77% 37% 42% 32% 42% 38%	136 299 6 48 45 63 54	321 403 155 131 155 176 155

HBHAC29	1057157	857	blastx.2	myelin-associated glycoprotein precursor [Homo sapiens]	gb AAA59545.1	98% 90% 39% 100%	2 427 20 786	424 759 400 815
HTPFW87	1057170	858	blastx.2	carboxyl ester lipase [Homo sapiens]	gb AAA51973.1	98% 34% 39% 35% 37% 36% 36% 34% 34%	5 1620 2154 2160 2136 2160 2160 2109 2010 1977	2206 2084 1687 1690 1687 1705 1768 1681 1687 1687
HISAF60	1057212	859	blastx.2	junctional adhesion molecule [Mus musculus]	gb AAC32982.1	38%	116	988
HRABO80	1057219	860	blastx.2	(A1050143) hypothetical protein [Homo sapiens]	emb CAB43289.1	100%	1590	1937
HADDF30	1057260	861	blastx.2	transcription regulatory protein Evi-1, short form - human	pir B60191 B60191	98% 22%	1 7	1155 858
HDAAS58	1057272	862	blastx.2	(AC005003) similar to zinc finger protein MAZ [Homo sapiens]; similar to AAB04121.1 (PID:g95935)	gb AAAF01349.1 AC005003.1	77%	263	676
HSDZG15	1057307	863	blastx.2	Homology with Squid retinal-binding protein	emb CAA91418.1	68% 47%	3 1212	713 1274

HPDYY52	1057393	864	blastx.2	(PIR Acc. No. 1.1 laminin alpha 5 chain [Mus musculus])	gb AAC53430.1	64% 47%	6 1165	1196 1380
HHESW02	1057478	865	blastx.2	(AF062075) leupaxin [Homo sapiens])	gb AAC16014.1	100% 34%	95 896	1252 1258
HVVBW8 4	1057561	866	blastx.2	(AB003184) ISLR [Homo sapiens])	dbj BAA22848.1	100%	342	1625
HSLJC80	1057797	868	blastx.2	prolargin [Homo sapiens])	gb AAC18782.1	32% 32% 28% 28% 29% 34%	353 899 686 1109 1663 262	1228 1573 1420 1657 1980 357
HEOADI2	1057842	869	blastx.2	(AF116865) hedgehog- interacting protein [Mus musculus])	gb AAD31172.1 AF1 16865_1	70%	533	1069
HVVBT41	1057880	870	blastx.2	(AL035587) d475N16.1 (CTG4A) [Homo sapiens])	emb CAB75301.1	100%	439	1272
HAZAE42	1057915	871	blastx.2	cellular retinol binding protein [Homo sapiens])	emb CAA30318.1	100%	255	659
HPRBN60	1057948	872	blastx.2	(AF002282) alpha- actinin-2 associated LIM protein [Homo sapiens])	gb AAC16672.1	99%	72	1019
HOVC268	1057958	873	blastx.2	folliculin 1 precursor - human	pir A32141 A32141	99%	1	987
H6EDF71	1057979	874	blastx.2	antigenic surface determinant OA3	emb CAA49196.1	99%	92	1021

HCOOF60	1058001	875	blastx.2	[Homo sapiens] ubiquitin carrier protein E2 - human	pir B42856 B42856	99%	133	855
HVVBH81	1058059	876	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	99%	227	2644
HSP1J51	1058172	877	blastx.2	SWI/SNF complex 155 KDa subunit [Homo sapiens]	gb AAC50693.1	95% 90% 29%	51 51 45	1004 1043 1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	99%	348	980
HOCP158	1058250	879	blastx.2	(AF037261) SH3- containing adaptor molecule-1 [Homo sapiens]	gb AAC09244.1	100% 94%	121 19	765 126
HPCTP25	1058287	880	blastx.2	gamma- aminobutyraldehyde dehydrogenase [Homo sapiens]	gb AAB18827.1	98%	72	1553
HODKM5 2	1058305	881	blastx.2	(AB008789) grb7 protein [Homo sapiens]	dbj BAA29059.1	98%	58	999
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo sapiens]	gb AAC50907.1	99%	118	1302
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM domain protein [Homo sapiens]	gb AAC05580.1	99%	142	1128
H6EEO05	1058438	885	blastx.2	(AL117423) hypothetical protein [Homo sapiens]	emb CAB55915.1	99%	100	1527
HFIVR61	1058451	886	blastx.2	interferon beta 2a	emb CAA00839.1	99%	214	777

HVVBX28	1058458	887	blastx.2	[Homo sapiens] SH3 domain-containing protein SH3P17 [Homo sapiens]	gb AAC50592.1	96% 49% 36%	53 308 104	493 466 301
HVVB138	1058475	888	blastx.2	factor H [Homo sapiens]	emb CAA68704.1	99% 25% 26% 25% 28% 27%	294 336 294 501 1083 1185	2291 2264 2291 2219 2288 2099
HUKE146	1058539	889	blastx.2	(AF081507) signaling molecule LEFTY-B [Homo sapiens]	gb AAC33967.1	98% 99%	479 70	1165 489
HDTT147	1058588	890	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA36236.1	98% 91%	2 258	268 398
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo sapiens]	dbj BAA07703.1	95% 77% 34%	29 41 219	460 265 512
HSDJH63	1058612	892	blastx.2	(AB045180) toll-like receptor 9 [Homo sapiens]	dbj BAB19259.1	92% 100% 52% 45% 58%	192 107 128 122 131	1358 190 184 181 181
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1	61%	80	1024
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H protein [Mus musculus]	emb CAA06595.1	43% 64% 50% 35%	408 2500 1784 544	256 2459 1719 485
HPMME44	1058928	895	blastx.2	HCMVUL126 [human]	emb CAA35328.1	96%	78	329

HSPSG28	1058977	897	blastx.2	herpesvirus 5] 26S protease subunit [Sus scrofa]	emb CAA61863.1	99% 88%	483 56	1679 82
HTGFW12	1059006	898	blastx.2	homolog of yeast mufL gene [Homo sapiens]	gb AAAG3923.1	98% 94% 68%	83 1522 1431	1438 2670 1667
HOFMT75	1059050	899	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 80%	7 414	456 743
HARNB17	1059085	900	blastx.2	HCMVUL126 [human herpesvirus 5]	emb CAA33528.1	98%	241	492
HPDRG65	1059102	901	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dj BAA91205.1	69% 69% 83%	434 253 288	273 128 253
HAOSG15	1059145	902	blastx.2	(AF026291) chaperonin containing t-complex polypeptide 1, delta subunit, CCT- delta [Homo sapiens]	gb AAC96010.1	100%	160	1776
HHEND31	1059180	903	blastx.2	(AF117330) unknown [Rattus norvegicus]	gb AAD26207.1 AF1 17330 1	73%	175	1827
HBMSN62	1059186	904	blastx.2	ZZ-beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	86%	1102	1251
HOVCJ46	1059241	905	blastx.2	(AF037272) WAP four-disulfide core	gb AAC40055.1	87% 70%	41 175	214 336

HWLEP14	1059394	906	blastx.2	domain protein [Rattus norvegicus] (AF117646) long CBL-3 protein [Homo sapiens]	gb AAD34341.1 AF117646.1	99%	92	1348
HDAER73	1059532	908	blastx.2	bikunin [Homo sapiens]	gb AAC02781.1	100%	436	1191
HOGAJ24	1059626	909	blastx.2	Similar to Human testican (S33293) [Homo sapiens]	dbj BAA13404.1	100%	427	1698
HTJMV05	1059692	910	blastx.2	protein tyrosine phosphatase [Homo sapiens]	gb AAA50779.1	100%	5	685
HOOL70	1059710	911	blastx.2	hematopoietic cell phosphatase [Homo sapiens]	gb AAA35963.1	100% 37% 32% 30%	212 188 2209 2219	1996 508 2310 2296
HUNAE87	1059743	912	blastx.2	(AF062317) p120 catenin isoform 1B [Homo sapiens]	gb AAC39802.1	99%	158	955
HTPHO01	1059764	913	blastx.2	(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1]	gb AAF34411.1	97%	125	1048
HDPWK69	1059784	914	blastx.2	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 11)	emb CAA20980.2	52%	275	496

HPCK03	1059849	915	blastx.2	(AF008551) aurora-related kinase 1 [Homo sapiens]	gb AAC12708.1	99%	59	1267
HO0IC15	1059967	917	blastx.2	(AL117639) hypothetical protein [Homo sapiens]	emb CAB56027.1	98%	575	1216
HODFG47	1059969	918	blastx.2	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gb AAD30062.1	100%	215	1213
HBIPC05	1060137	919	blastx.2	(AF078798) extracellular signal-regulated kinase 7; ERK7 [Rattus norvegicus]	gb AAD12719.1	62%	23	832
HOPJ132	1060193	920	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HNOBN20	1060382	921	blastx.2	unknown protein [Homo sapiens]	gb AA88036.1	43% 47%	1362 1487	1150 1380
HOCXP74	1060391	922	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	91%	18	656
HTEPP27	1060415	923	blastx.2	PF20 [Chlamydomonas reinhardtii]	gb AB41727.1	39%	207	581
HLVYAJ79	1060495	924	blastx.2	ATPase subunit 6 [Homo sapiens]	dj JBAA07295.1	79%	197	808
HCOOQ11	1060656	925	blastx.2	sialidase [Homo sapiens]	emb CAA55356.1	70% 100%	1 189	189 308

HWM/GI51	1060711	926	blastx.2	hypothetical protein [Synecocystis sp.]	dbj BAA10294.1	41%	16	615
HDPJG33	1060780	927	blastx.2	GTP binding protein [Mus musculus]	emb CAA36803.1	78% 68% 37%	543 439 933	863 699 1061
HL YAE20	1060967	928	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	67%	1002	1259
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	99%	322	1302
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	100%	77	298
HOCQG58	1061180	931	blastx.2	26S PROTEASOME REGULATORY SUBUNIT S2 (p97) (TUMOR 11)	sp Q13200 PSD2_HU MAN	100%	63	2786
HOFNH33	1061185	932	blastx.2	MRAS2 gene product [Mucor racemosus]	gb AAA83994.1	31%	260	823
HAIQA63	1061238	933	blastx.2	matrin 3 [Rattus norvegicus]	gb AAB63955.1	90% 94% 54% 98% 24% 31% 35% 35% 40%	1038 293 2361 3308 2634 2646 1755 3362 3837	2570 1105 2810 3478 2813 2759 1847 3454 3896
HVVVBK70	1061258	934	blastx.2	(AJ000414) Cdc42- interacting protein 4 [Homo sapiens]	emb CAA04062.1	92% 100% 28%	653 31 627	1276 468 1055
HVVBA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	100%	3	500

HWLLG38	1061388	936	blastx.2	df1119A7.1 (mitochondrial thioredoxin) [Homo sapiens]	dbj BAA01706.1	100%	114	692
HTPCH84	1061466	937	blastx.2	neurocalcin [Bos taurus] (AF104419) decoy receptor 3 [Homo sapiens]	gb AAD03056.1	99% 100%	103 938	945 1000
HLGDA34	1061543	939	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA091205.1	71% 73%	3 1766	254 1641
HAICB08	1061629	940	blastx.2	rhoHP1 [Homo sapiens]	dbj BAA19652.1	100%	3	326
HVVAV6 0	1061694	941	blastx.2	(AF151882) CGI-124 protein [Homo sapiens]	gb AAD34119.1 AF1 51882.1	100%	244	741
HPDYB50	1061708	942	blastx.2	(AJ002030) progesterone binding protein [Homo sapiens]	emb CAA05152.1	100%	33	206
HAZAY40	1061765	943	blastx.2	tight junction (zonula occludens) protein ZO- 1 [Homo sapiens]	gb AAA02891.1	100%	3	1631
HACMZ51	1061766	944	blastx.2	contains 10 ankyrin- like repeats; similar to human ankyrin, 1 bursaria Chlorella virus 1]	gb AAC96986.1	33% 28% 32% 30%	118 73 100 88	957 726 657 561
HUXAL63	1061790	945	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	98%	2	1300

HLCLX57	1061886	946	blastx.2	latent transforming growth factor-beta- binding protein-2, 1 1	gb AAB37459.1	99% 37% 32% 34% 45% 40% 41% 42% 38% 36% 32% 34% 34% 34% 34% 43% 35% 45% 47% 31% 46% 35% 29% 35% 38% 40% 41% 34% 29% 28%	3 447 27 21 696 693 696 681 666 693 666 684 657 666 12 696 6 15 9 3 678 3 9 3 3 246 837 3 15 99	953 941 398 398 941 914 941 929 941 914 989 929 929 941 167 929 149 149 377 155 914 149 365 155 143 371 944 143 188 215
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HMALF63	1061935	947	blastx.2	factor activating exoenzyme S [Bos taurus]	gb AAA03514.1	35% 22% 57%	118 280 427	252 483 468
HACMR36	1062057	948	blastx.2	(AK000963) unnamed protein product [Homo sapiens]	dbj BAA91446.1	86% 99% 27% 34% 33% 27% 50%	181 29 1141 1460 1710 1883 1506	1290 391 1323 1528 1805 2170 1553
HAOSM08	1062079	949	blastx.2	(AF059617) serum- inducible kinase [Homo sapiens]	gb AAC14573.1	99%	284	2338
HTEFM89	1062084	950	blastx.2	(AF162680) STRIN protein [Homo sapiens]	gb AAD46623.2 AF1 62680 1	99%	500	1234
HCHAK72	1062123	951	blastx.2	(AF113596) mosaic serine protease epitheliasin [Mus musculus]	gb AAF21308.1	47%	95	1165
HPAME12	1062139	952	blastx.2	retinoic acid- and interferon-inducible 58K protein RI58 [Homo sapiens]	gb AAA84934.1	100%	209	1654
HCEAF10	1062309	954	blastx.2	(AL050060) hypothetical protein [Homo sapiens]	emb CAB43253.1	97%	798	1535

HBCBE63	1062328	955	blastx.2	(AF007170) unknown [Homo sapiens]	gb AAC39582.1	100% 69% 87% 57%	191 87 25 1	790 251 96 63
HSS/O19	1062346	956	blastx.2	endonuclease G [Bos taurus]	emb CAA51320.1	97% 24%	361 1093	248 887
HE8NQ23	1062369	957	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	99% 100% 87%	574 416 171	1419 571 263
HTELJ95	1062431	958	blastx.2	(AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	99%	272	949
HTPCP50	1062435	959	blastx.2	(AF111069) latrophilin 2 splice variant baac [Bos taurus]	gb AAD05305.1	38% 47%	417 1997	2129 2044
HFKIT82	1062544	961	blastx.2	(AF152495) protocadherin beta 2 [Homo sapiens]	gb AAD43756.1 AF1 52495_1	98% 30% 26%	2 20 26	1663 1297 1267
HE2LW42	1062574	962	blastx.2	(AF090934) PRO0518 [Homo sapiens]	gb AAF24048.1 AF0 90934_1	100%	1267	1079
HOGCE44	1062586	963	blastx.2	protein tyrosine phosphatase (FC 3.1.3.48) [Homo sapiens]	gb AAA36528.1	99%	156	2561
HOVIJ72	1062626	964	blastx.2	latent TGF-beta binding protein-4 [Homo sapiens]	emb CAA73944.1	85% 91% 85%	547 203 1	1782 559 204

								37%	215	346
								37%	212	307
								42%	209	271
								29%	4	210
								55%	215	265
								30%	212	310
								29%	841	921
								32%	1766	1930
								32%	1667	1861
								58%	230	265
								29%	215	460
								56%	1764	1838
								58%	1792	1842
								63%	1859	1891
								40%	1391	1450
								37%	12	95
								37%	254	406
								66%	549	584
								87%	838	569
								34%	1633	1421
								69%	2007	1969
								30%	1621	1421
								38%	1024	938
								30%	1552	1352
								63%	1525	1493
								70%	1295	1266
HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb/AAA35914.1			100%	15	320
HBOEB83	1062629	966	blastx.2	thrombospondin-4	emb/CAA79635.1			95%	4	1392

HODCT96	1062631	967	blastx.2	[Homo sapiens] repressor transcriptional factor [Homo sapiens]	gb AAA79179.1	74% 74% 73% 56% 40% 69% 69% 41% 78% 67% 66% 71% 73% 77% 71% 75% 70% 69% 71% 64% 63% 72% 38% 49%	2 2 2 2 2 2 2 2 250 2 2 250 250 259 250 250 250 250 250 250 250 250 253	247 247 247 337 514 247 247 490 468 247 259 468 468 468 468 471 468 468 468 468 423 313 459
HTXJE60	1062655	968	blastx.2	(AK000642) unnamed protein product [Homo sapiens]	dbj BAA91301.1	50%	171	1112
HUSIQ62	1062679	969	blastx.2	high mobility group 2 protein [Homo sapiens]	gb AAA58659.1	100% 31%	188 143	814 472

HKBAK29	1062718	971	blastx.2	(AF161525) HSPC177 [Homo sapiens]	gb AAF29140.1 AF1 61525_1	100% 93%	975 42	1562 140
HPMCX26	1062743	972	blastx.2	LIMK-2 [Homo sapiens]	dbj BAA08312.1	97%	365	649
HPKHF51	1062785	973	blastx.2	(AF177203) cerebral cell adhesion molecule	gb AAD51367.1 AF1 77203_1	99%	360	1910
HUCPE28	1062795	974	blastx.2	[Homo sapiens] extensin [Volvox carteri]	emb CAA46283.1	36% 36% 36% 38% 27%	728 728 735 734 119	1063 958 1055 949 460
HPWAH30	1062840	975	blastx.2	zinc finger protein [Homo sapiens]	gb AAA59469.1	98% 77% 76% 76% 81% 75% 77% 75% 74% 76% 74% 75% 74%	1 1 1 1 1 1 1 1 1 1 10 1	705 705 705 705 666 702 696 705 705 705 705 705

	74%	1	705
	72%	1	705
	73%	1	705
	72%	1	705
	71%	1	705
	72%	1	705
	71%	1	705
	71%	1	705
	71%	1	705
	71%	1	705
	70%	1	705
	71%	1	705
	71%	1	705
	67%	1	705
	63%	1	705
	59%	163	705
	52%	702	815
	51%	723	815
	51%	723	815
	42%	702	815
	48%	723	815
	42%	702	815
	45%	723	815
	39%	702	815
	45%	723	815
	39%	702	815
	39%	702	815
	46%	726	815
	45%	723	815

H6EDQ51	H6EDQ51R	976	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	36% 42%	702 723	815 806
HA5AU29	HA5AU29R	977	blastx.2	anyloid-beta protein [Homo sapiens]	gb AAB59501.1	36% 41%	702 723	815 815
HACBX26	HACBX26 R	978	blastx.2	NADH dehydrogenase subunit 1 [Homo sapiens]	dbj BAA07290.1	41% 41%	723 723	815 815
HACMH72	HACMH72 R	982	blastx.2	TrnC protein (gig start codon) [Plasmodium falciparum]	gb AA24905.1	42% 43%	726 726	809 815
HACMS55	HACMS55 R	985	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	43% 95%	726 726	815 210
HACMX77	HACMX77 R	986	blastx.2	protein kinase C inhibitor-1 [Homo sapiens]	gb AA82926.1	100%	42	419
HACMZ45	HACMZ45 R	987	blastx.2	Keratin 8 [Homo sapiens]	emb CAA52882.1	100%	3	245

HACND54	HACND54 R	988	blastx.2	(AC003956) acetolactate synthase [Homo sapiens]	gb AAB94632.1	67%	2	466
HACNF21	HACNF21R	991	blastx.2	40-kDa keratin protein [Homo sapiens]	gb AAA36044.1	78%	267	404
HACNF41	HACNF41R	992	blastx.2	cytokeratin 8 (279 AA) [Homo sapiens]	emb CAA31376.1	86%	3	608
HACNI47	HACNI47R	993	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	2	91
HADET44	HADET44R	996	blastx.2	[Homo sapiens] URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	95%	96	500
HAHHD12	HAHHD12 R	998	blastx.2	(AF016252) Spinophilin [Rattus norvegicus]	gb AAB72005.1	95%	62	481
HALSG11	HALSG11R	999	blastx.2	(AC004544) cytochrome C oxidase; match to P14406 (PID:g117121) [Homo sapiens]	gb AAC12952.1	92%	481	522
HAOSB87	HAOSB87R	1002	blastx.2	delta- aminolevulinate synthase (housekeeping) [Homo sapiens]	emb CAA39794.1	96%	1	96
HAOSE70	HAOSE70R	1004	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	74%	116	376
HAOSF68	HAOSF68R	1005	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	74%	54	134
						73%	1	549
						88%	166	267
						55%	273	359
						90%	76	576

HAOSG95	HAOSG95	1006	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	111	452
HAOSI79	HAOSI79R	1007	blastx.2	ribosomal protein L7 [Homo sapiens]	gb AAA03081.1	95%	10	330
HAOSI27	HAOSI27R	1008	blastx.2	polyubiquitin - tobacco hornworm (fragments)	pir JH0302 JH0302	100%	2	142
						100%	2	142
						75%	135	233
						73%	135	224
						49%	156	332
						39%	223	405
						72%	223	255
HAOSJ33	HAOSJ33R	1009	blastx.2	lactate dehydrogenase- A [Homo sapiens]	emb CAA26879.1	95%	3	353
HAOSK38	HAOSK38	1011	blastx.2	Ku protein subunit [Homo sapiens]	gb AAA36155.1	100%	4	303
HAOSL36	HAOSL36R	1012	blastx.2	S- adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	94%	30	200
						96%	224	379
						71%	336	494
						88%	1	27
HAOSL47	HAOSL47R	1013	blastx.2	(AF155581) proteasome subunit beta 7 [Danio rerio]	gb AAD53521.1 AF1 55581_1	91%	86	343
						93%	4	96
						55%	432	572
						80%	340	429
HAOTE06	HAOTE06R	1021	blastx.2	(AF132947) CGI-13 protein [Homo sapiens]	gb AAD27722.1 AF1 32947_1	98%	2	451
HAOTF90	HAOTF90R	1023	blastx.2	carboxyl methyltransferase [Homo sapiens]	dbj BAA02991.1	94%	3	170
HAOTI07	HAOTI07R	1026	blastx.2	HL23 ribosomal protein [Homo sapiens]	emb CAA39417.1	96%	36	365
						84%	398	454

HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON-ASSOCIATED PROTEIN CKAP1 (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_HUMAN	80%	361	405
HAOTT79	HAOTT79R	1028	blastx.2	ME491 antigen precursor (AA -1 to 237) [Homo sapiens]	emb CAA30792.1	97%	57	452
HAOTW22	HAOTW22R	1029	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HUMAN	100%	1	201
HAPNK45	HAPNK45R	1032	blastx.2	cytochrome c oxidase subunit 1 [Homo sapiens]	dbj BAA07292.1	90% 79% 90% 100%	2 274 473 261	262 516 535 281
HAPPR43	HAPPR43R	1033	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	42%	146	472
HAQML40	HAQML40R	1035	blastx.2	ribosomal protein L39 [Homo sapiens]	dbj BAA11465.1	98%	106	258
HAUAK54	HAUAK54R	1037	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	62%	12	245
HAZAC68	HAZAC68R	1042	blastx.2	lumican [Homo sapiens]	gb AAA91639.1	97% 26% 36%	3 3 3	587 551 500
HAZAD13	HAZAD13R	1043	blastx.2	human elongation factor-1-delta [Homo sapiens]	emb CAA79716.1	74% 60%	53 250	478 555

HAZAE44	HAZAE44R	1045	blastx.2	fibronectin precursor [Homo sapiens]	emb[CAA26536.1]	98% 46% 40% 39% 36% 35% 33%	84 105 105 123 69 105 18	512 335 413 347 392 344 347
HAZAG23	HAZAG23R	1046	blastx.2	unnamed protein product [Homo sapiens]	emb[CAA62211.1]	96%	2	466
HAZAI89	HAZAI89R	1051	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	splP05787 K2C8_HU MAN	100%	72	260
HAZAJ72	HAZAJ72R	1052	blastx.2	protein arginine N- methyltransferase [Rattus norvegicus]	gb AAC52622.1	97% 58% 81% 34%	1 497 579 537	537 580 611 605
HAZAQ80	HAZAQ80R	1053	blastx.2	(AF064205) dynactin 1 p135 isoform [Homo sapiens]	gb AAD55812.1	100%	84	389
HAZBI39	HAZBI39R	1056	blastx.2	(AL031427) dJ167A19.3 (novel protein) [Homo sapiens]	emb[CAB46723.1]	100%	83	424
HAZBI69	HAZBI69R	1057	blastx.2	transmembrane protein	emb[CAA66947.1]	100%	3	323

HBJHY72	HBJHY72R P00B		blastx.2		[Oryctolagus cuniculus] (AL117434) hypothetical protein [Homo sapiens]	emb CAB55922.1	98%	1	297
HBXCG52	HBXCG52 R	1063	blastx.2	1065	(AK001079) unnamed protein product [Homo sapiens]	dbj BAA01496.1	89% 46%	371 457	427 606
HCACS53	HCACS53R P00A	1067	blastx.2	1067	histone H3 [Spisula solidissima]	gb AA29965.1	90% 100% 86%	313 116 506	507 244 574
HCHAJ85	HCHAJ85R	1068	blastx.2	1068	hemolysin [Acanthamoeba polyphaga]	gb AAA58585.1	61%	206	57
HCHMM7 1	HCHMM71 R	1069	blastx.2	1069	(AC003040) unknown protein [Arabidopsis thaliana]	gb AAC23757.1	58% 44%	2 249	244 329
HCLBH21	HCLBH21R	1071	blastx.2		cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	91% 88%	3 415	416 600
HCOMA72	HCOMA72 R	1073	blastx.2		NumA protein - human	pir S33413 S33413	100%	115	273
HCOMB04	HCOMB04 R	1074	blastx.2		prolylcarboxypeptidase [Homo sapiens]	gb AA99891.1	98% 55%	77 702	718 782
HCOMD38	HCOMD38 R	1075	blastx.2		phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	emb CAA50793.1	100%	39	275
HCOMD61	HCOMD61	1076	blastx.2		(AF047470) malate	gb AAC03787.1	87%	1	216

	R				dehydrogenase precursor [Homo sapiens]			75%	240	287
HCOMF52	HCOMF52 R	1078	blastx.2		hypothetical protein 384D8_6 [Homo sapiens]	gb AAB03345.1		80%	14	655
HCOMG28	HCOMG28 R	1079	blastx.2		elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1		71% 100%	100 54	522 98
HCOMG40	HCOMG40 R	1080	blastx.2		ribosomal protein L15 [Rattus norvegicus]	emb CAA55026.1		76%	35	646
HCOMI30	HCOMI30R	1083	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		85%	315	491
HCOMI37	HCOMI37R	1084	blastx.2		similar to 40S ribosomal protein; cDNA EST CEMSA13F comes from 11 gene; cDNA EST EMBL:M79582 comes from this gene; cDN	emb CAA86061.1		59% 66% 64%	304 89 518	540 301 568
HCOML11	HCOML11 R	1085	blastx.2		fused-ccdB [Escherichia coli]	emb CAA71575.1		90%	273	470
HCOMM55	HCOMM55 R	1087	blastx.2		The polymorphism (RFLP) of this gene is associated with 11 (AF042857) lung cancer antigen NY-LU-12 variant A [Homo	dbj BAA03853.1		100%	298	176
HCOMO58	HCOMO58 R	1088	blastx.2			gb AAC05826.1		98%	4	282

HCOMW5 2	HCOMW52 RP00B	1089	blastx.2	sapiens] (AB032025) ubiquitin [Canis familiaris]	dbj BAA83996.1	99%	60	443
HCOMX77	HCOMX77 R	1090	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HNRNP CORE PROTEIN A1).	sp P09651 ROAL_H UMAN	65% 96% 100% 57% 53% 48% 34% 57% 62% 44% 45% 75% 50%	133 5 81 5 8 5 142 11 81 5 11 81 84	315 82 122 82 76 82 291 82 128 82 79 116 119
HCONC18	HCONC18 RP00B	1091	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 91% 83% 71%	3 190 333 426	188 333 424 467
HCONK56	HCONK56 R	1093	blastx.2	ribosomal protein L18 [Homo sapiens]	gb AAA16329.1	100%	104	616
HCONL49	HCONL49 R	1095	blastx.2	ribosomal protein S13 [Homo sapiens]	dbj BAA13528.1	57% 98%	567 3	665 221
HCONO17	HCONO17 R	1099	blastx.2	(AC004240) match to Z43555 (NID-g572788)	gb AAC04502.1	81% 71%	4 65	69 148
HCONO25	HCONO25 R	1100	blastx.2	5,10- methenyltetrahydrofolate synthetase [Homo]	gb AAC41945.1	77% 87% 100%	251 147 3	610 245 68

HCONP44	HCONP44R	1101	blastx.2	sapiens] H ⁺ -transporting ATP synthase (EC 3.6.1.34) 58k chain - human	pir A33281 A33281	51%	481	579
HCONR31	HCONR31 R	1104	blastx.2	ezrin (AA 1-586) [Homo sapiens]	emb CAA35893.1	96% 66%	3 391	398 426
HCONU03	HCONU03 R	1105	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	92% 92% 53%	3 511 611	518 627 688
HCONW6	HCONW62 R	1106	blastx.2	Human tetraacycline transporter-like protein mRNA [Homo sapiens]	emb CAA92577.1	77% 85% 69% 36%	1 330 529 6	297 473 645 119
HCOOG32	HCOOG32 R	1111	blastx.2	ornithine decarboxylase antizyme [Homo sapiens]	dbj BAA13497.1	97%	5	334
HCOOG37	HCOOG37 R	1112	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	92%	78	482
HCOOI71	HCOOI71R	1114	blastx.2	calpactin I light chain [Bos taurus]	gb AAA30423.1	100%	64	354
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos taurus]	emb CAA29094.1	77% 50%	215 681	703 740
HCOOM18	HCOOM18 R	1116	blastx.2	keratin 18 [Homo sapiens]	gb AA59461.1	95% 100%	14 616	640 690
HCOOM73	HCOOM73 R	1117	blastx.2	claudin-10 [Homo sapiens]	gb AAC79506.1	90%	26	694
HCOOQ46	HCOOQ46	1118	blastx.2	protein-tyrosine	emb CAA48338.1	100%	2	166

HCOOT43	R	HCOOT43	1120	blastx.2	phosphatase [Homo sapiens]	gb/AAA35646.1	100%	95	439
HCOOT68	R	HCOOT68	1121	blastx.2	neutral protease alpha subunit [Homo sapiens] (AF019661) zeta proteasome chain; PSMA5 [Mus musculus]	gb/AAC69149.1	99% 77%	171 473	470 652
HCOOU56	R	HCOOU56	1122	blastx.2	(AF143815) ribosomal protein [Bos taurus]	gb/AAD33912.1 AF143815_1	55% 62% 52%	30 233 698	515 406 748
HCOOW7	R	HCOOW72	1123	blastx.2	keratin 18 [Homo sapiens]	gb/AAA59461.1	78%	49	552
HCOOX48	R	HCOOX48	1126	blastx.2	(AF095770) PTH-responsive osteosarcoma D1 protein [Homo sapiens]	gb/AAD25980.1 AF095770_1	87% 83%	218 330	310 365
HCOOY43	R	HCOOY43	1127	blastx.2	THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-DEPENDENT PEROXIDE 1 NATURAL KILLER CELL ENHANCING FACTOR B) (NKEF-B).	sp P32119 TDX1_HUMAN	91%	22	426
HCOPB03		HCOPB03R	1129	blastx.2	ribosomal protein L19 - rat	pir A56846 A56846	98% 62%	11 367	367 573

HCOPC45	HCOPC45R	1130	blastx.2	homologue of yeast IPP isomerase [Homo sapiens]	emb CAA34890.1	96%	3	89
HCOPD67	HCOPD67R	1131	blastx.2	ubiquitin conjugating-protein [Oryctolagus cuniculus]	gb AAA31492.1	91%	104	541
HCOPD27	HCOPD27R	1132	blastx.2	serine protease homolog=NES1 [human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo sapiens]	gb AAB46780.1	99%	2	400
HCOP109	HCOP109R	1134	blastx.2	fused; toxic gene [synthetic construct]	emb CAA67127.1	77%	62	310
HCOP34	HCOP34R	1136	blastx.2	(AF026246) HERV-E envelope glycoprotein [Homo sapiens]	gb AAC52076.1	65%	122	337
HCOP088	HCOP088R	1138	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	74%	4	507
HCOPV41	HCOPV41R	1139	blastx.2	MEMD protein [Homo sapiens]	emb CAA71256.1	97%	3	593
HCOPZ15	HCOPZ15R	1140	blastx.2	(AL031228) dJ1033B10.9 (Short-chain alcohol dehydrogenase family member (HKE6, RING2)) [Homo sapiens]	emb CAA20237.1	96% 83%	7 572	579 625

HCOQA38	HCOQA38 R	1141	blastx.2	sapiens] h1BD-1 [Homo sapiens]	emb[CAA63405.1]	100%	68	271
HCOQB12	HCOQB12 R	1143	blastx.2	(AC005600) tuberin [Homo sapiens]	gb AAC34210.1]	100% 84%	4 308	309 346
HCOQD29	HCOQD29 R	1147	blastx.2	S3 ribosomal protein [human, colon, Peptide, 243 aa] [Homo sapiens]	gb AAB19349.1]	93% 55% 60%	16 552 632	588 707 730
HCOQD38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb[CAA31284.1]	95%	112	636
HCOQD49	HCOQD49 R	1149	blastx.2	H ⁺ -transporting ATP synthase (EC 3.6.1.34) gamma chain precursor - bovine	pir A32019 PWBOG	89% 65%	35 513	532 692
HCOQG37	HCOQG37 R	1151	blastx.2	1-8D [Homo sapiens]	emb[CAA40625.1]	99% 100%	51 386	386 409
HCOQH46	HCOQH46 R	1153	blastx.2	mucin MUC5B [Homo sapiens]	gb AAC51343.1]	100% 64%	95 324	343 365
HCOQ106	HCOQ106R	1156	blastx.2	37kD Laminin receptor precursor /p40 ribosomal associated protein [Gallus gallus]	emb[CAA64147.1]	85% 58%	26 352	361 474
HCOQ107	HCOQ107R	1157	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1]	88%	6	656
HCOQ179	HCOQ179R	1159	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1]	83%	1	471
HCOQK86	HCOQK86 R	1160	blastx.2	(AF038129) polyubiquitin [Ovis]	gb AAB92373.1]	94% 94%	4 4	456 456

HCOQL87	HCOQL87 R	1161	blastx.2	aries]	gb AA56823.1	93% 97% 56% 30% 30%	28 4 440 440 440	456 255 487 556 556
HCOQM87	HCOQM87 R	1162	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AA56823.1	56% 41%	24 328	521 630
HCOQO79	HCOQO79 R	1163	blastx.2	DRPLA protein [Mus musculus]	dbj BAA13450.1	52% 47%	3 17	278 307
HCOQP32	HCOQP32R	1164	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	99% 61%	2 561	574 608
HCOQS11	HCOQS11R	1165	blastx.2	elongation factor 1- alpha [Homo sapiens]	gb AA52367.1	95% 64%	15 151	149 381
HCOQU92	HCOQU92 R	1167	blastx.2	acidic ribosomal phosphoprotein (P2) [Homo sapiens]	gb AAA36472.1	78%	102	398
HCOQV27	HCOQV27 R	1168	blastx.2	protein translocation complex beta subunit [Canis familiaris]	gb AAA19639.1	100% 100%	91 272	270 301
HCOQX38	HCOQX38 R	1169	blastx.2	B4-2 protein [Homo sapiens]	gb AA85576.1	96%	3	239
HCOQY33	HCOQY33 R	1170	blastx.2	catechol O- methyltransferase [Homo sapiens]	emb CAA81263.1	96% 91% 80% 100%	32 421 495 1	421 489 539 30
HCOQZ86	HCOQZ86	1173	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	96%	49	321
				MHC class II HLA-	gb AAA59782.1	92%	106	357

HCORB20	R			DR-beta-1 [Homo sapiens]			77%	351	470
HCORB66	R	1175	blastx.2	(AB012122) TIP49 [Homo sapiens]	dbj BAA28169.1		98%	68	292
HCOR118	R	1177	blastx.2	ribosomal protein L28 [Homo sapiens]	gb AAA85657.1		94%	75	482
HCOR125	R	1178	blastx.2	hnRNP B1 protein [Homo sapiens]	dbj BAA06031.1		100%	120	317
HCOR82	R	1179	blastx.2	pm3 protein [Homo sapiens]	emb CAA40655.1		100%	2	124
HCRME42	R	1180	blastx.2	NADH dehydrogenase subunit 3 [Homo sapiens]	dbj BAA77672.1		56%	126	305
HDABR53	R	1181	blastx.2	IGF binding protein-2 [Sus scrofa]	gb AAC48728.1		49%	123	305
HDTAQ74	R	1182	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		50%	129	305
HDTBP08	R	1183	blastx.2	(AF112208) 13kDa differentiation-associated protein [Homo sapiens]	gb AAF17196.1 AF112208_1		44%	120	317
		1186	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1		43%	132	317
							39%	2	124
							98%	3	419
							91%	3	245
							90%	247	276
							87%	1	369
							59%	297	416
							47%	332	427
							97%	38	463
							61%	115	408
							90%	38	136
							53%	326	409
							100%	273	293
							97%	255	470

HDTDB88	HDTDB88 R	1188	blastx.2	cytochrome c oxidase subunit I [Pan troglodytes]	dbj BAA85270.1	89% 88%	27 259	275 441
HE8QX44	HE8QX44R	1190	blastx.2	(AF010472) alpha- amidating monooxygenase [Homo sapiens]	gb AAD01439.1	93% 95% 80%	49 272 475	288 475 549
HE9QU94	HE9QU94R	1191	blastx.2	alligator Wilms' tumour protein [Alligator mississippiensis]	emb CAA59735.1	100%	3	170
HEAHF02	HEAHF02R	1192	blastx.2	(AC004044) predicted protein of unknown function [Arabidopsis thaliana]	gb AAD15346.1	37%	62	376
HBEAY40	HBEAY40R	1193	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	100%	3	128
HEGAF68	HEGAF68R	1194	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	89% 89%	3 178	179 321
HFABK01	HFABK01R	1196	blastx.2	NADH dehydrogenase subunit 2 [Homo sapiens]	dbj BAA07291.1	80% 69%	2 186	190 284
HFIBG63	HFIBG63R	1198	blastx.2	cytokine SDF-1-beta [Homo sapiens]	gb AA97434.1	96%	152	406
HFUB15	HFUB15R	1199	blastx.2	cytochrome oxidase subunit II [Homo sapiens]	gb AA20843.1	93%	2	517
HFIXK57	HFIXK57R	1200	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	90%	5	325

HFIZQ64	HFIZQ64R	1201	blastx.2	[Homo sapiens] (AK001601) unnamed protein product [Homo sapiens]	dbj BAA01782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	[Homo sapiens] neutral calponin [Homo sapiens]	dbj BAA12090.1	96%	3	86
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit)	emb CAA24027.1	87% 90%	66 1	527 66
HFPIX37	HFPIX37R	1204	blastx.2	[Homo sapiens] hypothetical protein (AL137696)	emb CAB70878.1	51% 41%	4 1	240 258
HFSDK36	HFSDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	90 341	290 514
HFVIB28	HFVIB28R	1206	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	70%	26	175
HFEXGR60	HFEXGR60R	1207	blastx.2	(AF034746) LNXp70	gb AAC40076.1	56%	347	57
HFHAUD07	HFHAUD07 R	1208	blastx.2	[Mus musculus] GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HFHFO21	HFHFO21R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	83% 82%	3 248	236 328
HFHEVG50	HFHEVG50 R	1210	blastx.2	[Homo sapiens] CAG-isi 7 [Homo sapiens]	gb AAC16021.1	64% 93%	205 13	246 474
HFHFGQ65	HFHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo sapiens]	emb CAB56506.1	81% 77%	107 25	319 129

HHSG15	HHSG15R	1213	blastx.2	sapiens] (AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	gb AAC25447.1	78%	3	743
HHSGP15	HHSGP15R	1214	blastx.2	cytochrome oxidase subunit III [Taipa europaea]	emb CAB71165.1	74% 62%	2 517	529 717
HHSGQ17	HHSGQ17 R	1215	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	89%	79	435
HKBAD05	HKBAD05 R	1216	blastx.2	(AB015335) HRIHFB2072 [Homo sapiens]	dbj BAA88116.1	84% 100%	61 324	351 356
HKZAE07	HKZAE07R	1218	blastx.2	Na ⁺ , K ⁺ -ATPase beta- subunit precursor [Sus scrofa]	gb AAA31002.1	100%	1	138
HKZAI14	HKZAI14R	1220	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	100%	3	368
HKZAI68	HKZAI68R A	1221	blastx.2	antigen [Homo sapiens]	gb AAAO2999.1	100%	2	79
HKZAQ39	HKZAQ39 R	1222	blastx.2	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	emb CAA63538.1	100%	19	480
HKZAR58	HKZAR58 R	1223	blastx.2	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1]	gb AAC34214.1	98%	3	266
HKZAS59	HKZAS59R	1224	blastx.2	ATP synthase beta subunit precursor [Homo sapiens]	gb AAA51809.1	100%	1	462
HKZAS64	HKZAS64R	1225	blastx.2	nephropontin [Homo sapiens]	gb AAA17675.1	98%	1	276

HKZAS84	HKZAS84R	1226	blastx.2	sapiens] calpain II regulatory subunit (EC 3.4.22.17) [Bos taurus]	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69 R	1227	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	8	412
HKZAV72	HKZAV72 R	1228	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2	ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
HLDDQ80	HLDDQ80 R	1232	blastx.2	ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74% 54%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2	neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	80%	17	187
HLICD55	HLICD55R	1234	blastx.2	glutamine:fructose-6- phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	96%	56	148
HLJBI37	HLJBI37R	1236	blastx.2	H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	82% 88%	187 380	393 406

HLTJA50	HLTJA50R	1238	blastx.2	(AK002071) unnamed protein product [Homo sapiens]	dbj BAA92068.1	63%	334	723
HYDI57	HYDI57R	1241	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	90%	2	565
HMCFO19	HMCFO19R	1242	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	46%	104	361
HMCIZ44	HMCIZ44R	1243	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	86% 74% 40%	1 377 207	342 517 389
HMCJE25	HMCJE25R	1244	blastx.2	cytochrome oxidase subunit I [Hylobates lar]	emb CAA67630.1	82% 77%	3 298	314 351
HMSPB25	HMSPB25R	1245	blastx.2	alcohol dehydrogenase [Homo sapiens]	gb AA51596.1	75%	315	172
HMVBB04	HMVBB04R	1246	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	pir C59153 C59153	86%	73	201
HNAAE01	HNAAE01R	1247	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	67% 67% 100% 100% 100% 100% 100% 100% 100% 100%	95 96 90 89 92 91 93 94 91 77	196 197 155 154 157 156 158 159 153 289
HNBUI37	HNBUI37R	1249	blastx.2	smooth muscle myosin	gb AAB28951.1	95%	77	289

	R			heavy chain isoform SM1 [human, umbilical 1]				
HNBL57	HNBL57 R	1250	blastx.2	growth-arrest-specific protein 2 [Homo sapiens]	gb AAC52058.1	74% 55%	242 70	514 384
HNHBC18	HNHBC18 R	1251	blastx.2	OS9 [Homo sapiens]	gb AAC39523.1	100% 41% 46% 35%	1 245 315 244	243 403 404 435
HNJFE85	HNJFE85R	1252	blastx.2	(AL031670) dJ68IN20.2 (similar to FTL1(ferritin, light 1	emb CAB43181.1	97%	224	451
HNKCO29	HNKCO29 R	1253	blastx.2	(AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	gb AAD05421.1	95%	52	390
HNOA22	HNOA22 R	1254	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	91%	114	422
HNOAB88	HNOAB88 R	1257	blastx.2	actin 2 protein [Strongylocentrotus purpuratus]	gb AAA30032.1	83% 81%	3 509	491 541
HNOAC15	HNOAC15 R	1259	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	93%	1	87
HNOAE50	HNOAE50 R	1260	blastx.2	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	98%	98	577
HNOAE65	HNOAE65 R	1261	blastx.2	ribosomal protein L26 [Homo sapiens]	emb CAA49189.1	100%	101	535

HNOAF22	HNOAF22 R	1262	blastx.2	ribosomal protein L21 [Homo sapiens]	emb(CAA61582.1)	100%	76	555
HNOAG34	HNOAG34 R	1264	blastx.2	collagen alpha 1(I) chain - bovine (fragments)	pir A91193 CGB01S	64%	54	239
						72%	1	108
						75%	221	319
						37%	3	239
						67%	221	313
						39%	21	239
						44%	54	236
						36%	15	236
						37%	15	236
						44%	72	239
						39%	21	239
						42%	12	236
						38%	3	236
						38%	15	239
						45%	84	236
						48%	99	239
						35%	15	236
						41%	54	239
						35%	6	239
						36%	3	239
						62%	233	319
						42%	69	239
						47%	93	236
						36%	15	239
						38%	3	200
						45%	93	236
						35%	15	239
						38%	54	239

	44%	93	239
	41%	6	236
	37%	3	239
	41%	69	236
	35%	6	236
	34%	15	239
	44%	84	239
	48%	218	322
	35%	6	239
	36%	21	236
	33%	15	239
	36%	3	239
	32%	3	239
	48%	218	319
	36%	54	239
	52%	227	322
	35%	15	236
	50%	233	328
	54%	233	328
	51%	227	322
	46%	111	239
	47%	218	319
	33%	21	236
	53%	233	322
	57%	233	316
	42%	114	239
	57%	233	316
	53%	233	316
	50%	227	328
	51%	227	328

						38%	69	239
						33%	3	236
						53%	233	316
						59%	1	96
						36%	93	239
						45%	233	358
						51%	227	319
						50%	227	322
						45%	221	319
						47%	218	319
						51%	233	319
						45%	212	316
						46%	227	316
						46%	221	316
						50%	233	322
						44%	221	322
						44%	230	328
						45%	227	328
						44%	1	108
						38%	93	239
						45%	227	322
						50%	227	316
						50%	233	316
						50%	227	316
						50%	230	319
						43%	227	319
						46%	233	322
						46%	221	316
						48%	233	319
						46%	227	316

		50%	233	322
		51%	227	316
		50%	233	316
		41%	227	316
		50%	233	316
		46%	233	322
		46%	227	322
		44%	242	328
		41%	212	319
		46%	227	316
		46%	233	322
		45%	1	105
		44%	230	322
		39%	1	123
		42%	209	322
		63%	260	316
		45%	227	319
		44%	1	105
		41%	1	108
		43%	227	316
		42%	1	114
		42%	1	105
		44%	1	105
		46%	233	316
		39%	221	316
		45%	1	93
		45%	227	322
		41%	1	93
		38%	1	108
		46%	233	322

322	233	43%
316	221	42%
108	1	41%
114	1	39%
108	1	38%
108	1	40%
316	212	40%
322	221	41%
108	1	36%
108	1	38%
328	233	43%
316	227	38%
316	227	43%
322	233	43%
316	221	40%
105	1	37%
108	1	38%
316	227	43%
93	1	38%
316	227	47%
93	1	41%
316	221	40%
316	227	38%
316	227	38%
93	1	41%
93	1	38%
108	1	36%
316	218	38%
316	260	63%
105	1	37%

	35%	1	108
	36%	1	108
	33%	1	108
	38%	227	316
	43%	227	316
	40%	221	316
	38%	1	108
	64%	321	362
	34%	1	105
	41%	1	108
	41%	1	108
	35%	1	93
	31%	1	123
	40%	212	322
	50%	1	66
	36%	1	105
	41%	1	93
	35%	1	93
	37%	1	105
	37%	1	105
	36%	1	108
	37%	221	328
	34%	1	105
	36%	212	316
	39%	233	316
	38%	1	93
	40%	1	105
	38%	1	93
	38%	1	108
	36%	1	108

41%	1	93
38%	1	108
33%	1	108
31%	1	114
37%	1	105
33%	1	108
40%	233	322
35%	1	93
31%	1	105
34%	1	105
37%	230	316
40%	227	316
38%	1	93
33%	1	108
37%	1	96
39%	218	316
31%	1	123
38%	233	316
36%	1	105
38%	1	108
39%	233	316
40%	233	322
38%	1	93
36%	1	108
37%	1	105
36%	233	322
32%	1	93
33%	1	108
30%	1	108
35%	1	93

33%	1	108
30%	1	108
38%	218	316
35%	227	316
38%	1	108
31%	1	105
35%	1	93
34%	233	319
36%	233	322
39%	221	322
35%	233	316
36%	1	66
35%	233	316
34%	233	319
38%	238	71
34%	250	20
45%	357	226
38%	238	86
44%	357	214
48%	321	223
39%	235	77
50%	318	223
48%	318	226
37%	238	50
35%	238	71
39%	199	71
47%	238	86
46%	321	226
47%	318	214
45%	318	214

	37%	238	86
	30%	238	80
	45%	318	220
	42%	360	226
	48%	318	226
	31%	238	71
	51%	318	214
	26%	253	68
	50%	199	104
	38%	238	98
	46%	315	226
	46%	315	226
	44%	357	226
	38%	238	104
	37%	238	92
	45%	318	226
	40%	357	226
	43%	318	223
	39%	238	71
	44%	318	214
	39%	354	226
	46%	318	223
	44%	357	223
	41%	238	104
	35%	238	71
	38%	238	71
	34%	238	77
	45%	318	217
	44%	315	214
	43%	321	214

	44%	321	223
	39%	238	98
	35%	238	71
	47%	318	214
	42%	321	214
	33%	238	71
	36%	238	71
	50%	315	226
	40%	318	223
	44%	321	226
	35%	238	71
	33%	238	71
	35%	238	71
	34%	235	71
	35%	238	68
	35%	244	92
	38%	238	92
	33%	238	71
	35%	238	98
	35%	238	98
	35%	238	71
	45%	318	226
	47%	318	226
	47%	318	226
	45%	318	226
	43%	321	226
	42%	318	217
	36%	330	223
	44%	321	223
	44%	321	217

34%	235	89
43%	318	217
40%	318	217
41%	318	220
35%	330	214
41%	238	71
47%	65	3
40%	330	226
41%	318	226
37%	318	223
37%	318	214
44%	318	226
39%	321	226
38%	318	226
43%	321	226
40%	321	226
41%	312	226
40%	315	226
39%	315	223
44%	321	214
56%	318	271
50%	321	226
40%	321	220
38%	321	223
34%	357	226
40%	315	226
38%	318	226
38%	318	226
52%	318	271
35%	318	226

HNOAH67	HNOAH67 R	1266	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb/AAA18502.1]	38% 33%	56 65	3 3
HNOAJ67	HNOAJ67R	1267	blastx.2	(AB000911) ribosomal protein [Sus scrofa]	dbj BAA19211.1]	100%	69	524
HNOAL51	HNOAL51 R	1270	blastx.2	(AD001528) spermidine aminopropyltransferase [Homo sapiens]	gb/AAB61308.1]	72% 75%	70 3	255 74
HNOAO71	HNOAO71 R	1273	blastx.2	MAP kinase kinase [Homo sapiens]	gb/AAA36318.1]	98%	62	283
HNOAP21	HNOAP21 R	1274	blastx.2	Q1Z7F5 [Homo sapiens]	gb/AAA36021.1]	91%	20	667
HNOAQ24	HNOAQ24 R	1275	blastx.2	epoxide hydrolase [Homo sapiens]	gb/AAA52390.1]	89%	2	571
HNOAQ47	HNOAQ47 R	1276	blastx.2	TAXREB107 [Homo sapiens]	dbj BAA04491.1]	99%	1	618
HNOAR85	HNOAR85 R	1278	blastx.2	(AF161378) HSPC260 [Homo sapiens]	gb/AAF28938.1 AF1 61378.1	88% 92%	287 99	562 290
HNOAS07	HNOAS07 R	1279	blastx.2	scar protein [Homo sapiens]	gb/AAA36597.1]	97% 97%	96 1	521 108
HNOAS36	HNOAS36 R	1280	blastx.2	proteoglycan core protein [Homo sapiens]	gb/AAB00774.1]	100%	3	254
HNOAS92	HNOAS92 R	1281	blastx.2	glutathione transferase M1 [Homo sapiens]	gb/AAA59203.1]	100%	2	385
HNOAT76	HNOAT76 R	1283	blastx.2	(AB016193) transcription factor	dbj BAA36616.1]	100%	2	187

HNOAV91	HNOAV91 R	1284	blastx.2	[Homo sapiens] ribosomal protein L28	gb/AAA85657.1	99%	29	439
HNOBE83	HNOBE83 R	1286	blastx.2	[Homo sapiens] translation initiation factor eIF3 p40 subunit	gb/AAD03465.1	100%	2	598
HNOBV55	HNOBV55 RA	1287	blastx.2	[Homo sapiens] ribosomal protein L12	gb/AAA36157.1	79%	694	765
HNOCE63	HNOCE63 R	1288	blastx.2	[Homo sapiens] (AF083217) WD repeat protein WDR3 [Homo sapiens]	gb/AAD45865.1 AF0 83217_1	100%	171	506
HNOCL43	HNOCL43 R	1289	blastx.2	alpha-1 type III collagen [Homo sapiens]	gb/AAA52002.1	74%	65	217
HNOCN02	HNOCN02 R	1290	blastx.2	TARBP-b gene product	gb/AAA91344.1	68%	2	388
HNOCN10	HNOCN10 R	1291	blastx.2	[Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens]	gb/AAC02679.1	30%	442	819
HNOCR44	HNOCR44 R	1292	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb/AAA60282.1	45%	393	557
HNOCU03	HNOCU03 R	1293	blastx.2	translational elongation factor-1 alpha [Danio rerio]	emb CAA54771.1	98%	2	193
HNOGD11	HNOGD11 R	1295	blastx.2	tumor protein (AA 1 - 172) [Homo sapiens]	emb CAA34200.1	91%	7	666
						90%	4	423
						40%	488	622
						100%	435	464
						80%	3	440
						74%	40	360
						71%	93	362
						70%	262	498
						66%	482	580
						85%	552	611

HNOJA93	HNOJA93R	1298	blastx.2	general transcription factor [Homo sapiens] (AF110731)	emb CAA37375.1	100%	1	453
HNOJB10	HNOJB10R	1299	blastx.2	antioxidant enzyme B166 [Homo sapiens]	gb AA03750.1 AF110731_1	98% 53% 54%	11 384 418	376 521 480
HNOJB57	HNOJB57R	1300	blastx.2	midline [Homo sapiens]	dbj BAAA01457.1	74%	92	520
HNOJH48	HNOJH48R	1304	blastx.2	(AF077054) unr protein [Homo sapiens]	gb AAD27787.1 AF077054_1	100%	2	283
HNOJH52	HNOJH52R	1305	blastx.2	S-adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	100%	6	179
HNOJH82	HNOJH82R	1306	blastx.2	ubiquitin [synthetic construct]	gb AAA57047.1	94%	22	489
HNOJH85	HNOJH85R	1307	blastx.2	(AF035718) mesoderm-specific basic-helix-loop-helix protein; Pod-1 [Homo sapiens]	gb AAC62514.1	86%	13	513
HNOJH20	HNOJH20R	1308	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	98%	1	261
HNOJH26	HNOJH26R	1309	blastx.2	plasma gelsolin [Homo sapiens]	emb CAA28000.1	73%	2	568
HNOJK66	HNOJK66R	1310	blastx.2	von Willebrand factor prepropeptide [Homo sapiens]	gb AB59512.1	90% 100% 26% 2.5% 2.5% 26%	1 408 16 13 307 91	459 491 396 324 402 405

HNOJM64	HNOJM64 R	1312	blastx.2	alpha-tubulin III [Crickettulus griseus] Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	gb/AAA37026.1	69% 27% 38% 32% 97%	218 319 343 16 3	256 399 402 171 428
HNOJO55	HNOJO55R	1313	blastx.2		emb[CAA62188.1	93% 100% 66% 53% 40% 48% 36% 37% 39% 44% 30% 33% 28% 23% 30% 42% 32% 35% 27% 37% 30% 22% 35% 41%	423 134 134 423 423 131 143 423 402 116 423 128 128 128 408 423 426 137 396 408 146 119 357	277 9 9 277 268 9 3 289 286 9 280 12 3 12 310 289 265 3 280 280 12 9 280

HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb/AA88027.1	28% 34% 116	414	280
HNOJQ22	HNOJQ22R	1315	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb/CAA12176.1	100% 100%	217 1	510 219
HNOKA20	HNOKA20 R	1316	blastx.2	signal recognition particle subunit 14 [Homo sapiens]	emb/CAA51838.1	97%	38	259
HNOKG34	HNOKG34 R	1318	blastx.2	hnRNPCore protein A1 [Homo sapiens]	emb/CAA56072.1	100% 31%	43 52	510 324
HNOKI89	HNOKI89R	1323	blastx.2	(AF009368) Luman [Homo sapiens]	gb/AB69652.1	100%	2	370
HNOKT24	HNOKT24 R	1326	blastx.2	ribosomal protein L6 [Homo sapiens]	emb/CAA49188.1	89% 68%	74 3	457 191
HNOKU52	HNOKU52	1327	blastx.2	ribosomal protein L29 [Homo sapiens]	gb/AAC50499.1	98%	33	509

HNOKV82	R	1328	blastx.2	[Homo sapiens] (AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	100%	3	488
HNORA56	R	1330	blastx.2	MHC class I A [Pan troglodytes]	gb AAA88855.1	93% 91% 96%	2 348 289	289 494 363
HNORB68	R	1331	blastx.2	high mobility group protein 17 [Homo sapiens]	gb AAA52678.1	95%	4	186
HNORC14	R	1332	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	90%	2	496
HNORD11	R	1333	blastx.2	ribosomal protein L5 [Rattus norvegicus]	gb AAA42074.1	93% 91%	179 7	394 183
HNORE65	R	1334	blastx.2	ORF [Pan troglodytes]	dbj BAA01980.1	83%	77	355
HNORF03	R	1335	blastx.2	(AL031228) d11033B10.2 (WD40 protein BING4 (similar to S. 1 sapiens])	emb CAA20229.1	89% 83% 90%	70 529 357	357 582 386
HNORF04	R	1336	blastx.2	(AF196481) RING finger protein; FX Y2 [Homo sapiens]	gb AAF07341.1 AF1 96481_1	91%	4	144
HNORF05	R	1337	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98% 98%	2 321	319 485
HNORF13	R	1338	blastx.2	TMP [Homo sapiens]	emb CAA00898.1	74%	31	615
HNORH03	R	1339	blastx.2	(AF110731) antioxidant enzyme	gb AAF03750.1 AF1 10731_1	95%	3	641

HNORH05	HNORH05 R	1340	blastx.2	B166 [Homo sapiens] ubiquitin conjugating- protein [Oryctolagus cuniculus]	gb/AAA31492.1]	100%	43	498
HNORJ08	HNORJ08R	1342	blastx.2	ATPase [Mus musculus]	gb/AAA88243.1]	90% 90% 38%	3 308 514	350 496 606
HOCMA02	HOCMA02 RA	1344	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb/AAC15862.1]	100% 65% 86% 50%	3 3 490 490	497 497 558 555
HOCMC08	HOCMC08 R	1347	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb/AAA18502.1]	89%	19	423
HOCMF27	HOCMF27 R	1349	blastx.2	sorbitol dehydrogenase [Homo sapiens]	gb/AAA66064.1]	100%	3	395
HOCMG37	HOCMG37 R	1352	blastx.2	chaperonin (HSP60) [Homo sapiens]	gb/AAA36022.1]	98% 36%	4 326	351 424
HOCMI62	HOCMI62R	1353	blastx.2	S19 ribosomal protein [Homo sapiens]	gb/AAA89070.1]	67%	64	384
HOCMI47	HOCMI47R	1354	blastx.2	ribosomal protein L18a [Homo sapiens]	gb/AAC18781.1]	98% 100%	4 413	378 439
HOCMK20	HOCMK20 R	1355	blastx.2	stathmin [Xenopus laevis]	emb/CAA50562.1]	77% 64%	80 363	379 500
HOCML06	HOCML06 R	1356	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb/AAA52496.1]	97%	123	707

HOCMI.66	HOCMI.66	R	1357	blastx.2	(AK000779) unnamed protein product [Homo sapiens]	dbj BAA91374.1	85% 76%	2 217	211 330
HOCMM5	HOCMM5	R	1358	blastx.2	glutathione transferase T1 [Homo sapiens]	emb CAA55935.1	98% 100%	133 24	594 137
HOCMS75	HOCMS75	R	1360	blastx.2	plakoglobin [Homo sapiens]	emb CAA92522.1	88%	6	500
HOCMS87	HOCMS87	R	1361	blastx.2	insulin-like growth factor binding protein 5 [Homo sapiens]	gb AA53505.1	70%	151	615
HOCMY53	HOCMY53	R	1363	blastx.2	(AF028832) Hsp89-alpha-delta-N [Homo sapiens]	gb AAC25497.1	97% 100% 43%	97 309 45	312 416 113
HOCMY61	HOCMY61	R	1364	blastx.2	ribosomal protein S15a [Rattus norvegicus]	emb CAA54918.1	99%	80	466
HOCMY79	HOCMY79	R	1365	blastx.2	fau [Homo sapiens]	emb CAA46716.1	100% 100%	317 115	511 315
HOCOC38	HOCOC38	R	1366	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_HUMAN	100%	388	23
HOCOC94	HOCOC94	R	1368	blastx.2	protein phosphatase 2A (AA 1 - 309) [Oryctolagus cuniculus]	emb CAA68732.1	98% 84% 66%	3 490 566	485 567 628
HOCOF35	HOCOF35	R	1369	blastx.2	(AF059486) putative actin-binding protein DOC6 [Mus musculus]	gb AAC31808.1	51% 81% 47% 29% 28% 31%	224 100 495 31 511 139	706 279 647 273 711 282

HOCOP50	HOCOP50R	1370	blastx.2	'FKBP52; 52 kD FK506 binding protein' [Homo sapiens]	gb AAA36111.1	72%	2	460
						46%	38	532
HOCOP62	HOCOP62R	1371	blastx.2	Ro ribonucleoprotein autoantigen (Ro/SS-A) precursor [Homo sapiens]	gb AAA36582.1	55%	396	632
						43%	472	561
HOCOP52	HOCOP52R	1372	blastx.2	spliceosomal protein [Homo sapiens]	gb AAA60300.1	77%	42	596
						67%	2	631
						34%	68	301
						39%	388	621
						30%	441	626
						42%	522	620
HOCOQ13	HOCOQ13R	1373	blastx.2	probable transmembrane protein TMC - human	pir S70029 S70029	94%	94	474
						75%	482	541
HOCOT70	HOCOT70R	1375	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	97%	8	412
HOCOP69	HOCOP69R	1377	blastx.2	(AJ001701) deoxyhypusine synthase [Homo sapiens]	emb CAA04940.1	96%	1	351
						72%	347	412
						50%	396	455
HOCOPH40	HOCOPH40R	1380	blastx.2	3-oxoacyl-CoA thiolase propetide (424 AA) [Homo sapiens]	emb CAA31412.1	100%	2	217
HOCOPH44	HOCOPH44R	1381	blastx.2	antisecretory factor-1 [Homo sapiens]	gb AAB54057.1	96%	3	275
						48%	286	408
HOCPI53	HOCPI53R	1383	blastx.2	collagen (VI) alpha-1 chain [Homo sapiens]	emb CAA67576.1	76%	41	322
						56%	225	365
						100%	4	39

HOCPM39	HOCPM39	1385	blastx.2	pinin [Bos taurus]	gb AB48302.1	86%	23	136
HOCPP65	HOCPP65R	1386	blastx.2	histone H2A.F [Gallus gallus]	emb CAA32094.1	85% 53%	63 350	314 445
HOCPP80	HOCPP80R	1387	blastx.2	isoleucyl-tRNA synthetase [Homo sapiens]	gb AAA80153.1	88%	3	563
HOCPPQ59	HOCPPQ59R	1389	blastx.2	(AF006012) dishevelled 2 [Homo sapiens]	gb AB65243.1	84% 100%	38 5	394 52
HOCPPQ66	HOCPPQ66R	1390	blastx.2	clathrin-associated protein 17 [Rattus norvegicus]	gb AAA40742.1	100%	2	427
HOCPPQ75	HOCPPQ75R	1391	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	86%	26	646
HOCPPR01	HOCPPR01R	1392	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb CAA27137.1	100% 91%	39 2	536 37
HOCPPR29	HOCPPR29R	1393	blastx.2	translation initiation factor [Homo sapiens]	emb CAA56074.1	96% 48% 40%	1 603 575	579 776 679
HOCPPR53	HOCPPR53R	1395	blastx.2	P311 HUM [Homo sapiens]	gb AAA74903.1	77%	86	268
HOCPPR77	HOCPPR77R	1397	blastx.2	similar to emb-5 protein of C.elegans. [Homo sapiens]	dbj BAA11479.1	92%	1	249
HOCPPS35	HOCPPS35R	1399	blastx.2	(AB017018) JKTB2 [Homo sapiens]	dbj BAA75239.1	100%	3	203
HOCPU03	HOCPU03R	1400	blastx.2	dihydropyridine-sensitive L-type calcium channel alpha-2 subunit	gb AAA41088.1	65% 54%	7 441	456 512

HOCPU30	HOCPU30R	1401	blastx.2	[Rattus norvegicus] KDEL receptor [Homo sapiens]	emb CAA39371.1	66% 69% 61% 98%	342 139 242 3	518 267 334 269
HOCPU68	HOCPU68R	1402	blastx.2	preprocathepsin B [Homo sapiens]	gb AAA52129.1			
HOCPU29	HOCPU29R	1403	blastx.2	thrombin inhibitor [Homo sapiens]	emb CAA80373.1	58%	243	593
HOCPU67	HOCPU67R	1404	blastx.2	serine/threonine-protein kinase PRP4m [Mus musculus]	gb AAB03269.1	88% 87%	58 345	327 518
HOCPU72	HOCPU72R	1405	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF1 32952.1	91% 84%	33 184	203 318
HOCPU56	HOCPU56R	1406	blastx.2	ARL3 [Homo sapiens]	gb AAA21654.1	100%	2	502
HOCPU81	HOCPU81R	1408	blastx.2	cysteine protease Mch2 isoform alpha [Homo sapiens]	gb AAC50168.1	91%	2	739
HOCPU01	HOCPU01R	1409	blastx.2	(AF052514) thymus specific serine peptidase [Homo sapiens]	gb AAC33563.1	73% 50% 87% 28%	129 113 566 483	440 571 589 587
HOCPU76	HOCPU76R	1411	blastx.2	(AF002705) beta prime COP [Rattus norvegicus]	gb AAB88018.1	99% 77%	2 423	421 524
HOCQA26	HOCQA26R	1413	blastx.2	interferon-inducible protein [Homo sapiens]	emb CAA59337.1	100% 71% 47%	205 410 360	378 571 473
HOCQA37	HOCQA37R	1414	blastx.2	lactoyl glutathione	dbj BAA02572.1	100%	136	276

HOCQA86	R				lyase [Homo sapiens]			82%	63	131
HOCQA86	R	1415	blastx.2		proteoglycan core protein [Homo sapiens]	gb AAB00774.1		91%	84	392
HOCQB18	R	1416	blastx.2		general transcription factor [Homo sapiens]	emb CAA37375.1		99%	3	473
HOCQB48	R	1417	blastx.2		Na+-independent neutral and basic amino acid transporter [Homo sapiens]	dbj BAA11541.1		97%	4	555
HOCQC71	R	1419	blastx.2		calcium binding protein [Homo sapiens]	dbj BAA23325.1		98%	126	419
HOCQD10	R	1420	blastx.2		ribosomal protein L12 [Homo sapiens]	gb AAA36157.1		88%	152	637
HOCQD19	R	1421	blastx.2		retinoid X receptor alpha [Rattus norvegicus]	gb AAA42093.1		80%	3	392
HOCQD42	R	1423	blastx.2		(AF095257) heterogeneous nuclear ribonucleoprotein C1/C2; hnRNP C1/C2 [Mus musculus]	gb AAD03717.1		86%	1	294
HOCQD45	R	1424	blastx.2		glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12), eutherian tissue - desert jerboa	pir JC5370 JC5370		91%	92	463
HOCQF35	R	1425	blastx.2		ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1		54%	495	785
								100%	457	492
								74%	6	437

HOCQG94	HOCQG94 R	1426	blastx.2	actin [Brugia malayi]	emb CAB06627.1	62%	9	629
HOCQH81	HOCQH81 R	1427	blastx.2	(AF038952) cofactor A protein [Homo sapiens]	gb AAC39866.1	58%	254	652
HOCQI31	HOCQI31R	1428	blastx.2	prostate-specific antigen, PSF 1 sapiens]	gb AAB32370.1	91%	144	242
HOCQM24	HOCQM24 R	1430	blastx.2	hnRNPeptide protein A1 [Homo sapiens]	emb CAA56072.1	100%	1	324
HODAF78	HODAF78 R	1431	blastx.2	(AC004638) amyloid precursor protein- binding protein 1 (APP-B1) [Homo sapiens]	gb AAC23784.1	100%	3	230
HODCZ52	HODCZ52 R	1434	blastx.2	tissue-specific secretory protein [synthetic construct]	emb CAA01433.1	55%	8	274
HODDI57	HODDI57R	1435	blastx.2	(AF113514) histone acetyltransferase MORF [Homo sapiens]	gb AAF00095.1	66%	26	133
						100%	216	233
						96%	6	167
						68%	164	304
						36%	12	158
						33%	12	170
						35%	45	164
						30%	39	164
						25%	30	176
						30%	24	164
						27%	36	146
						26%	13	168
						37%	81	161
						46%	53	91

HODER57	HODER57 R	1440	blastx.2	Method: conceptual translation supplied by author [Homo sapiens]	gb AAA91179.1	34%	6	101
HODFC44	HODFC44R P00	1449	blastx.2	(AF216754) over-expressed breast tumor protein [Homo sapiens]	gb AAF25683.1 AF216754_1	98%	1	207
HODFJ14	HODFJ14R	1453	blastx.2	Ran_GTP binding protein_5 [Homo sapiens]	emb CAA70103.1	100%	2	181
HODFO16	HODFO16 R	1459	blastx.2	selenium donor protein [Homo sapiens]	gb AAA87567.1	100%	305	409
HODFO64	HODFO64 R	1460	blastx.2	zinc finger protein ZNF136 [Homo sapiens]	gb AAC50261.1	78%	16	153
						70%	1	153
						70%	1	153
						64%	1	153
						66%	1	153
						71%	16	153
						58%	1	153
						58%	1	153
						60%	1	156
						58%	1	153
						58%	1	153
						58%	7	153
						54%	10	153
						75%	150	233
						67%	156	239
						77%	174	239
						90%	174	233
						62%	153	239

								45%	159	329
								63%	153	242
								80%	174	233
								60%	153	236
								54%	49	153
								51%	242	328
								70%	269	328
								55%	239	319
								60%	174	233
								43%	242	337
								81%	272	319
								54%	248	319
								32%	159	314
								34%	174	314
								48%	242	328
								52%	251	319
								41%	239	325
								41%	248	319
								37%	239	325
HODFP51	HODFP51R	1461	blastx.2	pre-mRNA splicing factor [Homo sapiens]				77%	74	439
HODFQ19	HODFQ19R	1462	blastx.2	DNA topoisomerase III [Homo sapiens]				44%	104	436
HODFQ37	HODFQ37R	1463	blastx.2	[Homo sapiens]				89%	7	453
				pancreatic peptidylglycine alpha-amidating monooxygenase, 11				92%	47	499
				protein 4 [Homo sapiens]				93%	2	97
								25%	338	493
HODGB69	HODGB69R	1475	blastx.2	gb AAB58952.1				89%	3	470
HODGH30	HODGH30	1478	blastx.2	sp Q9Y6Y3 Q9Y6Y5				90%	31	129

HODGH43	R	HODGH43	1479	blastx.2	PROTEIN. (AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	100%	48	116
HODGH65	R	HODGH65	1480	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y3 Q9Y6Y5	28%	217	363
HODGN53	R	HODGN53	1482	blastx.2	(AF186461) ring finger protein Fxy [Rattus norvegicus]	gb AAD56247.1 AF1 86461_1	96%	41	127
HODGQ52	R	HODGQ52	1487	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	39%	95	475
HODGW9	R	HODGW91	1489	blastx.2	phosphofructokinase [Homo sapiens]	gb AAA79220.1	82%	1	84
HODGZ63	R	HODGZ63	1493	blastx.2	putative [Caenorhabditis elegans]	gb AAA28195.1	25%	118	189
HODHD23	R	HODHD23	1495	blastx.2	fused-cddB [Escherichia coli]	emb CAA71575.1	100%	101	3
HODHE54	R	HODHE54	1498	blastx.2	lysyl oxidase-like protein [Homo sapiens]	gb AAA50162.1	93%	394	347
HODHE88	R	HODHE88	1499	blastx.2	(AK001737) unnamed protein product [Homo sapiens]	dbj BAA91871.1	49%	190	462
HODHG56	R	HODHG56	1500	blastx.2	(AF151888) CGI-130 protein [Homo sapiens]	gb AAD34125.1 AF1 51888_1	57%	470	532
HODHK86	R	HODHK86	1503	blastx.2	(AB005299) BAI 3 [Homo sapiens]	dbj BAA25363.1	92%	24	104
HODJL36	R	HODJL36R	1505	blastx.2	(AL031177)	emb CAA20118.1	100%	24	323
							96%	323	418
							32%	94	348
							83%	29	196
							100%	121	231
							93%	2	289
							88%	413	568
							48%	207	590
							40%	254	436

	A			dJ889N15.2.2 (26S Proteasome subunit p28 (Ankyrin 1			32%	26	118
HODJZ09	HODJZ09R	1506	blastx.2	preproinsulin [Homo sapiens]		emb CAA6039.1	98%	64	558
HODKB82	HODKB82R	1508	blastx.2	serine/threonine kinase [Rattus norvegicus]		emb CAB06294.1	96% 28%	3 348	338 473
HODKD64	HODKD64R	1514	blastx.2	(AL096881) hypothetical protein [Homo sapiens]		emb CAB51405.1	66%	503	333
HODKK26	HODKK26R	1519	blastx.2	calmodulin [Homo sapiens]		dbj BAA08302.1	99% 45% 34% 100% 75%	59 41 38 463 417	424 286 391 507 464
HODKK40	HODKK40R	1520	blastx.2	ribosomal protein S6 [Homo sapiens]		gb AA60289.1	99%	1	624
HODKK73	HODKK73R	1521	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]		gb AAA36470.1	96% 71% 28%	3 331 416	344 651 682
HODKN65	HODKN65R	1526	blastx.2	homologue to elongation factor 1-gamma from A.salina [Homo sapiens]		emb CAA45089.1	76%	5	538
HOECR39	HOECR39R	1527	blastx.2	(AF216306) DCRC-1 [Mus musculus]		gb AAF32294.1 AF216306_1	58%	116	424
HOFAB77	HOFAB77R	1528	blastx.2	(AC007193) PPP5_HUMAN [Homo sapiens]		gb AAD22669.1 AC007193_3	80% 47%	16 450	489 512

HOFMF79	HOFMF79 RA	1530	blastx.2	cytochrome b [Canis familiaris]	gb AAD04775.1	80% 38%	4 305	339 430
HOFMJ88	HOFMJ88R	1531	blastx.2	receptor protein-tyrosine kinase [Homo sapiens]	gb AAA61139.1	76%	17	370
HOFMM84	HOFMM84 R	1533	blastx.2	hydroxymethylglutaryl-CoA reductase (NADPH) (EC 1.1.1.34) - mouse (fragments)	pir A43533 A43533	72% 85%	112 254	252 274
HOFMN93	HOFMN93 R	1534	blastx.2	(AF133669) ARL-6 interacting protein-1 [Mus musculus]	gb AAD33046.1 AF133669_1	61% 84%	36 214	299 327
HOFMP59	HOFMP59 R	1535	blastx.2	mitochondrial acetoacetyl-CoA thiolase [Homo sapiens]	dbj BAA01387.1	77% 83%	1 369	360 422
HOFMT68	HOFMT68 R	1536	blastx.2	RNAse L inhibitor [Mus musculus]	gb AAC24730.1	52% 40%	137 264	547 581
HOFMT69	HOFMT69 R	1537	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN M (HNRNP M)	spl P52272 ROM_HUMAN	80% 75% 39%	127 27 98	264 122 316
HOFMU92	HOFMU92 R	1538	blastx.2	(AP000694) chromatin assembly factor 1, subunit B (p60) [Homo sapiens]	dbj BAA89426.1	63%	124	432
HOFNF63	HOFNF63R	1540	blastx.2	phosphomannomutase [Homo sapiens]	gb AAC51368.1	70%	26	478
HOFNF76	HOFNF76R	1541	blastx.2	(AB002806) OS-9	dbj BAA24363.1	94%	17	370

HOFNG51	HOFNG51 R	1542	blastx.2	isoform 2 is missing nt 1642-1806; OS-9 1 (AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	79%	157	414
HOFNK44	HOFNK44 R	1543	blastx.2	osteonectin precursor [Bos taurus]	gb AAA30678.1	96%	19	186
HOFNY53	HOFNY53 R	1544	blastx.2	(AL034417) BK21SD11.1 (RNA- binding protein regulatory subunit) [Homo sapiens]	emb CAB52550.1	91%	17	232
HOFOB65	HOFOB65R	1545	blastx.2	pyruvate dehydrogenase E1- alpha precursor [Homo sapiens]	gb AAA60055.1	74%	16	600
HOFOB79	HOFOB79R P00A	1546	blastx.2	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT).	sp Q29386 Q29386	84%	80	397
HOFOE22	HOFOE22R	1547	blastx.2	activin receptor type I [Bos taurus]	gb AAB02696.1	98%	22	345
HOFOF47	HOFOF47R	1548	blastx.2	(AF129075) T- COMPLEX PROTEIN 1, THETA SUBUNIT (TCP-1-THETA) [Homo sapiens]	gb AAD17375.1	98% 62% 100%	18 245 244	242 460 270
HOFOF56	HOFOF56R	1549	blastx.2	protein disulfide isomerase [Mus musculus]	gb AAA39906.1	85% 57% 64% 36%	115 109 35 204	219 219 115 350

HOGCF48	HOGCF48R	1553	blastx.2	hepatitis C-associated microtubular aggregate protein p44 [Homo sapiens]	dbj BAA06043.1	40%	263	352
HOGCG83	HOGCG83 R	1554	blastx.2	keratin [Homo sapiens]	emb CAA31695.1	79% 81% 59%	50 309 21	310 482 113
HOGCI28	HOGCI28R	1556	blastx.2	complement component C3 [Homo sapiens]	gb AA85332.1	93% 83%	3 173	179 337
HOGCJ10	HOGCJ10R	1557	blastx.2	(AF032667) rexo/70 [Rattus norvegicus]	gb AAC01579.1	94%	103	471
HOGCI55	HOGCI55R	1559	blastx.2	Grb14 [Homo sapiens]	gb AAC15861.1	95%	13	459
HOGCT44	HOGCT44 R	1562	blastx.2	casein kinase I-alpha [Homo sapiens]	gb AAC41760.1	100%	31	183
HOGCV85	HOGCV85 R	1563	blastx.2	heparin binding protein [Homo sapiens]	gb AAA58636.1	76% 73%	3 398	521 535
HOGCV93	HOGCV93 R	1564	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	79%	43	504
HOGCV12	HOGCV12 R	1565	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	97% 41%	8 302	340 547
HOGCV58	HOGCV58 R	1566	blastx.2	lipocortin II [Homo sapiens]	dbj BAA000013.1	94% 70% 30%	3 332 150	329 517 326
HOGCV74	HOGCV74 R	1567	blastx.2	extracellular matrix protein BM-40 (AA 1 -	emb CAA68724.1	100%	3	260

HOGDD29	HOGDD29 R	1568	blastx.2	303) [Homo sapiens] drebrin E2 [Homo sapiens]	gb/AAA16256.1]	88%	3	152
HOGDG03	HOGDG03 R	1570	blastx.2	I-caldesmon II [Homo sapiens]	dbj BAA14419.1]	95% 87%	191 393	388 491
HOGDI44	HOGDI44R	1572	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1]	100%	55	192
HOGDO25	HOGDO25 R	1574	blastx.2	XIAP associated factor-1 (ZAP-1) [Homo sapiens]	emb CAA68030.1]	100%	2	163
HOGDO58	HOGDO58 R	1575	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb/AAA36470.1]	65%	86	373
HOGDP10	HOGDP10 R	1576	blastx.2	keratin [Homo sapiens]	emb CAA73943.1]	89%	3	287
HOGDQ95	HOGDQ95 R	1578	blastx.2	FUSE binding protein 3 [Homo sapiens]	gb AAC50893.1]	90% 32% 62% 48%	70 157 390 413	435 378 461 493
HOGDR70	HOGDR70 R	1579	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1]	83%	102	578
HOGDV93	HOGDV93 R	1580	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb/AAA52496.1]	98%	4	414
HOGEA27	HOGEA27	1581	blastx.2	cytokeratin 8 [Homo sapiens]	gb/AAA35763.1]	81%	2	160

HOGED85	R	HOGED85	1582	blastx.2	sapiens] AP-3 complex beta3A subunit [Homo sapiens]	gb AAD03778.1	75% 85% 25%	3 305 6	482 445 173
HOGK25	R	HOGK25	1583	blastx.2	HLA-Aw34.2 antigen [Homo sapiens]	emb CAA43874.1	91%	38	316
HOGEN30	R	HOGEN30	1584	blastx.2	regulatory subunit RI alpha [Homo sapiens]	emb CAA01027.1	83%	140	322
HOGEP69	R	HOGEP69	1587	blastx.2	(AF056182) G-protein beta subunit [Emmericella nidulans]	gb AAC33436.1	75% 78%	83 219	205 260
HOGET60	R	HOGET60	1588	blastx.2	Plakoglobin [Homo sapiens]	gb AAA64895.1	67%	155	367
HOGEW58	R	HOGEW58	1590	blastx.2	focal adhesion kinase [Homo sapiens]	gb AAA35819.1	96%	4	414
HOGZ03	R	HOGZ03	1592	blastx.2	kinase [Homo sapiens]	emb CAA65450.1	87% 83%	52 18	144 53
HOHL68	R	HOHL68	1601	blastx.2	ZZ:beta-Gal ⁺ IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	92%	373	543
HOHP84	R	HOHP84	1602	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	82%	1	156
HOHQ09	R	HOHQ09	1603	blastx.2	pfkblue fusion protein [synthetic construct]	gb AAA72865.1	63%	292	423
HOHQ83	R	HOHQ83	1604	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	100%	85	399
HOHR81	R	HOHR81	1605	blastx.2	pfkblue fusion protein [synthetic construct]	gb AAA72865.1	73% 78%	336 464	458 505
HOHT13	R	HOHT13	1608	blastx.2	steroid receptor TR2-11	gb AAA36761.1	95%	3	188

HO01A46	R	1610	blastx.2	[Homo sapiens] cpn10 protein [Bos taurus]	emb CAA49288.1	95%	193	264
HO01B54	HO01B54R	1613	blastx.2	[Homo sapiens] ribosomal protein L23a	gb AABI7510.1	100%	3	239
HO01G71	HO01G71R	1615	blastx.2	[Homo sapiens] ribosomal protein L27	gb AAA19815.1	75%	89	199
HO01N84	HO01N84R	1624	blastx.2	[Homo sapiens] IEF 7442 [Homo sapiens]	emb CAA51360.1	98%	2	250
HO01J32	HO01J32R	1629	blastx.2	[Homo sapiens] ribosomal protein L23a	gb AA03341.1	100%	4	189
HO01J65	HO01J65R	1630	blastx.2	[Homo sapiens] protein [Canis familiaris]	emb CAB46822.1	76%	34	237
HO01Y44	HO01Y44R	1636	blastx.2	human homologue of rat phosphatidylethanolami ne binding protein [Homo sapiens]	dbj BAA03684.1	88%	43	123
HO01Y80	HO01Y80R	1637	blastx.2	cytochrome b5 [Homo sapiens]	gb AAA35729.1	100%	2	184
HO01Y92	HO01Y92R	1638	blastx.2	mitochondrial matrix protein [Homo sapiens]	gb AAA60127.1	98%	61	462
HO01N43	HO01N43 R	1640	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	98% 91% 66% 62%	48 403 513 341	344 513 686 445
HOP1F95	HOP1F95R	1643	blastx.2	nucleolar protein p40	gb AAB46731.1	63%	124	399
						91%	209	511

HOPJG60	HOPJG60R	1644	blastx.2	[Homo sapiens] (AF161386) HSPC268 [Homo sapiens]	gb/AAF28946.1[AF1 61386.1]	90%	130	219
HOPJG79	HOPJG79R	1646	blastx.2	prosomal P27K protein [Homo sapiens]	emb/CAA42052.1]	100%	86	280
HOPJH65	HOPJH65R	1650	blastx.2	C gamma 3 [Homo sapiens]	emb/CAA27268.1]	97%	3	551
						57%	535	594
HOPKA06	HOPKA06 R	1656	blastx.2	homeotic protein HOX4E - human		46%	42	476
HOPKG16	HOPKG16 R	1659	blastx.2	scar protein [Homo sapiens]	gb/AAA36597.1]	44%	182	460
HOPKG47	HOPKG47 R	1660	blastx.2	(AL050318) d1977B1.5 (myosin regulatory light chain 2, smooth muscle isoform) [Homo sapiens]	emb/CAB75369.1]	34%	172	543
						100%	2	49
HOPKG83	HOPKG83 R	1661	blastx.2	elongation factor-1- beta [Homo sapiens]	emb/CAA43019.1]	95%	2	655
						98%	1	432
HOPKK38	HOPKK38 R	1662	blastx.2	(AF077539) contains similarity to human melanoma antigen p15 (GB: U19796) [Caenorhabditis elegans]	gb/AAC26291.1]	98%	46	519
						83%	525	560
HOPKN14	HOPKN14 R	1663	blastx.2	aldolase A (EC 4.1.3.13) [Homo sapiens]	gb/AAA51690.1]	99%	34	594
						50%	584	709
						84%	615	653
						34%	60	380
						61%	379	417
						100%	2	460

HOPKN67	HOPKN67 R	1664	blastx.2	17,000 dalton myosin light chain [Bos taurus]	emb CAA38722.1	94%	31	483
HOPKO04	HOPKO04 RA	1665	blastx.2	(AL137423) hypothetical protein [Homo sapiens]	emb CAB70733.1	96%	1	81
HOPKO61	HOPKO61 R	1666	blastx.2	Six5 [Mus musculus]	dij BAA11824.1	76%	4	405
HOPKP45	HOPKP45R	1667	blastx.2	PAX8=paired-box- protein [alternatively spliced] [human, 1]	gb AAB34216.1	90% 90% 41% 35%	285 154 494 385	527 285 601 435
HOPKQ20	HOPKQ20 R	1668	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	115	435
HOPKQ82	HOPKQ82 R	1669	blastx.2	(AF063243) ribosomal protein L30 [Bos taurus]	gb AAC16388.1	89%	28	498
HOPKR56	HOPKR56R	1670	blastx.2	unnamed protein product [Homo sapiens]	emb CAA02873.1	100%	6	173
HOPKU33	HOPKU33 R	1671	blastx.2	ribosomal protein L11 [Homo sapiens]	gb AAC15856.1	86%	5	514
HOVBK49	HOVBK49 R	1674	blastx.2	(AL080125) hypothetical protein [Homo sapiens]	emb CAB45723.1	85% 80% 75% 70% 79% 60% 73% 66% 63%	12 21 21 21 21 21 21 21 21	155 155 155 170 152 203 155 155 152

HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb/AAD46422.1[AF1 05715_1	61% 63% 40% 40% 38% 38% 36% 46% 34% 34% 32% 32% 38% 42% 34% 36% 37% 34% 39% 34% 32% 31% 30% 36% 52% 28%	12 21 112 121 121 121 121 24 170 121 121 121 27 258 178 258 264 261 264 258 258 261 258 258 27 243 42	152 152 369 375 375 372 375 170 375 375 375 173 407 369 407 407 407 407 407 401 407 152 305 146
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb/AAD46422.1[AF1 05715_1	50% 55% 34%	246 50 112	434 109 249
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb/AAD46422.1[AF1 05715_1	86% 75%	182 340	319 399

HOVCN03	HOVCN03 R	1678	blastx.2	kinase C [Oreochromis niloticus] (AJ005798) thyroid hormone receptor alpha 2 [Sus scrofa]	emb CAA06702.1	72%	309	341
HOVCU89	HOVCU89 R	1680	blastx.2	ribosomal protein L18a - rat	pir S03957 RSKT18	72%	36	578
HOVCV33	HOVCV33 R	1681	blastx.2	alpha-smooth muscle actin [Oryctolagus cuniculus]	emb CAA43139.1	92% 50%	1 287	321 454
HOVCW4 5	HOVCW45 R	1682	blastx.2	(AL137585) hypothetical protein [Homo sapiens]	emb CAB70827.1	97% 100% 80% 21% 23%	2 372 463 5 35	220 464 522 196 190
HOVCZ45	HOVCZ45 R	1684	blastx.2	retrovirus-related pol polyprotein pseudogene - human 1	pir A44282 A44282	63% 61%	2 444	361 506
HOVDB61	HOVDB61 R	1686	blastx.2	(AF067728) transactivating protein BRIDGE [Rattus norvegicus]	gb AAD32925.1 AF067728_1	89%	91	204
HOVDB65	HOVDB65 R	1688	blastx.2	ZZ-beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	112	282
HOVDG71	HOVDG71 R	1692	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	75% 81% 27%	116 3 103	226 98 210
HOVDH09	HOVDH09 R	1693	blastx.2	binding protein [Homo sapiens]	gb AAA36032.1	98% 81%	15 405	299 485

HOVDH75	HOVDH75 R	1694	blastx.2	ZZ-beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AB00807.1	81% 44%	316 299	381 433
HOVDV70	HOVDV70 R	1696	blastx.2	(AF151866) CGI-108 protein [Homo sapiens]	gb AAD34103.1 AF1 51866.1	69%	126	254
HOVEF34	HOVEF34R	1703	blastx.2	MTHSP75 [Homo sapiens]	gb AA67526.1	71% 90%	246 580	611 612
HOVEF81	HOVEF81R	1704	blastx.2	thyroid receptor interactor [Homo sapiens]	gb AAA73877.1	99%	49	393
HOVEL51	HOVEL51R	1707	blastx.2	cytochrome c-1 [Homo sapiens]	gb AAA52135.1	71% 77%	96 21	209 47
HOVEY58	HOVEY58 R	1712	blastx.2	ZZ-beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AB00807.1	93%	277	369
HOVI09	HOVI09R	1717	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	100%	28	576
HOVJR56	HOVJR56R	1718	blastx.2	macrophage migration inhibitory factor [Homo sapiens]	gb AAA21814.1	100%	4	186
HOVIU75	HOVIU75R	1719	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	92%	64	648
HOVIW17	HOVIW17 R	1720	blastx.2	HLA-DR-beta-A [Homo sapiens]	emb CAA00596.1	92%	95	217
HOVIY68	HOVIY68R	1721	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94% 97%	217 15	570 221

HOVKE66	HOVKE66 R	1723	blastx.2	unnamed protein product [unidentified]	emb/CAB69339.1]	35%	149	241
HOVKG18	HOVKG18 R	1725	blastx.2	PBG-D (aa 1-344) [Homo sapiens]	emb/CAA27801.1]	98%	2	487
HPAMB11	HPAMB11 R	1726	blastx.2	transformation-related protein [Homo sapiens]	gb/AA36776.1]	98%	2	379
HPAMB60	HPAMB60 R	1727	blastx.2	poly(A)-binding protein [Homo sapiens]	gb/AAAD08718.1]	66%	353	601
HPAMB93	HPAMB93 R	1729	blastx.2	heat-shock protein [Canis familiaris]	gb/AAA87172.1]	80%	2	679
HPAMC04	HPAMC04 R	1730	blastx.2	ADP-ribosylation factor [Homo sapiens]	gb/AAA57126.1]	41%	65	556
HPAMC19	HPAMC19 R	1731	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb/CAA56869.1]	31%	65	553
HPAMC27	HPAMC27 R	1732	blastx.2	protein synthesis initiation factor 4A [Mus musculus]	emb/CAA40268.1]	38%	496	684
HPAMC90	HPAMC90 R	1733	blastx.2	HBp1 5/L22 [Sus scrofa]	dbj/BAA04547.1]	74%	17	253
HPAMD56	HPAMD56 R	1734	blastx.2	isolog of yeast sui1 and rice gos2, putative [Homo sapiens]	gb/AA60602.1]	95%	231	299
HPAME35	HPAME35 R	1735	blastx.2	amphiglycan [Homo sapiens]	emb/CAA47406.1]	50%	140	331
						94%	89	676
						88%	64	786
						50%	746	805
						97%	84	464
						99%	136	456
						80%	26	451

HPAMF16	HPAMF16 R	1737	blastx.2	actin [Dictyostelium discoideum]	gb AAA74186.1	45% 73% 42%	178 452 619	414 520 732
HPAMF38	HPAMF38 R	1738	blastx.2	(AF132970) CGI-36 protein [Homo sapiens]	gb AAD27745.1 AF1 32970.1	76%	63	434
HPAMG44	HPAMG44 R	1739	blastx.2	(AC004393) Similar to ribosomal protein L17 gb X62724 from 1 1	gb AAC18792.1	61% 59%	331 117	612 374
HPAMG54	HPAMG54 R	1740	blastx.2	(AF039752) histone deacetylase-2; HD-2 [Gallus gallus]	gb AAB96924.1	94% 95% 77% 68%	75 394 518 627	389 516 661 701
HPAMI11	HPAMI11R	1741	blastx.2	ribosomal protein S8 [Homo sapiens]	emb CAA47670.1	87%	11	592
HPAMI71	HPAMI71R	1742	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	97% 64% 63%	62 412 405	397 609 494
HPAMQ76	HPAMQ76 R	1744	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	100%	2	190
HPAMT47	HPAMT47 R	1745	blastx.2	(AF017153) putative RNA helicase and RNA dependent ATPase [Mus musculus]	gb AAC36129.1	100%	381	509
HPAMU33	HPAMU33 R	1746	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	98% 80%	2 472	493 600
HPAMW4 4	HPAMW44 R	1748	blastx.2	(AC006127) BRG-1- HUMAN [AA 812- 1440]; nuclear protein GRB1; 1.1 SNF2L4	gb AAC97986.1	69% 91% 42%	4 221 46	354 358 159

HPAMY45	HPAMY45 R	1749	blastx.2	[Homo sapiens] (AC004908) similar to ribosomal protein L23a; similar to P29316 (PID:g 32848)	gb AAD05196.1]	95% 92%	294 220	563 297
HPAMZ14	HPAMZ14 R	1750	blastx.2	[Homo sapiens] triosephosphate isomerase [Rattus norvegicus]	gb AAA442278.1]	93% 61%	20 508	508 600
HPAMZ15	HPAMZ15 R	1751	blastx.2	(AJ006776) IP2 protein [Homo sapiens]	emb CAB44357.1]	95%	3	149
HPAMZ81	HPAMZ81 R	1752	blastx.2	SP-40,40 prepropeptide (AA-22 to 427) [Homo sapiens]	emb CAA32847.1]	99% 62%	3 581	599 676
HPANA05	HPANA05 R	1753	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1]	99% 61% 88%	107 466 579	487 729 605
HPANA07	HPANA07 R	1754	blastx.2	nucleolin [Homo sapiens]	gb AA559954.1]	92% 34% 58%	7 19 626	678 678 697
HPANA28	HPANA28 R	1755	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1]	100%	2	376
HPANB32	HPANB32R	1757	blastx.2	(AF078820) high mobility group protein [Spalax ehrenbergi]	gb AAC27653.2]	93%	5	235
HPANE49	HPANE49R	1759	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1]	99%	8	412
HPANE52	HPANE52R	1760	blastx.2	23 kD highly basic	emb CAA40254.1]	95%	13	624

HPANE87	HPANE87R	1761	blastx.2	protein [Homo sapiens] lactate dehydrogenase B [Homo sapiens]	emb[CAA32033.1]	82% 48%	119 34	592 174
HPANJ67	HPANJ67R	1762	blastx.2	lipocortin II [Homo sapiens]	dbj[BAA00013.1]	100%	3	119
HPCOJ59	HPCOJ59R	1766	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb[CAB01127.1]	32%	60	260
HPCOL81	HPCOL81R	1770	blastx.2	histone H2A.Z (AA 1-127) [Bos taurus]	emb[CAA36554.1]	100%	36	179
HPCOO90	HPCOO90R	1771	blastx.2	ribosomal protein L37a [Homo sapiens]	gb[AAA60280.1]	98%	60	335
HPCOO95	HPCOO95R	1772	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT).	sp[Q16465]YZA1_HUMAN	100%	337	2
HPCOP23	HPCOP23R	1773	blastx.2	ribosomal protein [Homo sapiens]	gb[AAA16105.1]	88%	53	427
HPCOR52	HPCOR52R	1778	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb[AB00807.1]	94%	136	306
HPCOV35	HPCOV35R	1780	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb[AB00807.1]	94%	244	414
HPCOV41	HPCOV41R	1781	blastx.2	Csa-19 [Homo sapiens]	gb[AAA86463.1]	94%	54	356
HPCPD26	HPCPD26R	1784	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	emb[CAA27137.1]	97%	3	314

HPCPH52	HPCPH52R	1788	blastx.2	antizyme inhibitor [Homo sapiens]	dbj BAA23593.1	100%	3	101
HPCPU27	HPCPU27R	1790	blastx.2	enhancer factor 1 chain A-D - rat	pir JC2022 JC2022	61%	3	185
HPCQT88	HPCQT88R	1797	blastx.2	integrin associated protein [Homo sapiens]	emb CAA80977.1	93%	1	327
HPCQX47	HPCQX47R	1800	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	90% 97% 92%	422 222 2	451 326 40
HPCTD21	HPCTD21R	1802	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	336	506
HPCTD23	HPCTD23R	1803	blastx.2	putative progesterone binding protein [Homo sapiens]	emb CAA73248.1	98%	2	190
HPCTD25	HPCTD25R	1804	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	374	544
HPCTF29	HPCTF29R	1806	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	209	379
HPCTF83	HPCTF83R	1807	blastx.2	major histocompatibility complex class II antigen beta chain, 1 Partial Mutant, 57 aa [Homo sapiens]	gb AAB28826.1	92%	58	177
HPCTI86	HPCTI86R	1809	blastx.2	H+-ATP synthase subunit b [Homo sapiens]	emb CAA42782.1	99%	1	306

HPCT069	HPCT069R	1811	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo sapiens]	gb AAC05826.1	99%	77	538
HPCTV40	HPCTV40R	1815	blastx.2	ribosomal protein L35a (aa 1-110) [Rattus norvegicus]	emb CAA27193.1	99%	48	377
HPCTV53	HPCTV53R	1816	blastx.2	8.2 kDa differentiation factor [Homo sapiens]	emb CAA56100.1	85% 91% 100%	26 138 250	148 248 318
HPCTV92	HPCTV92R	1817	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	85%	20	205
HPCTX22	HPCTX22R	1818	blastx.2	Aop1_Human, MER5(Aop1_Mouse)-like protein [Homo sapiens]	dbj BAA08389.1	100%	1	153
HPDOF81	HPDOF81R	1822	blastx.2	2,4-dienoyl-CoA reductase [Homo sapiens]	gb AA67551.1	95% 64%	3 229	254 342
HPDOP05	HPDOP05R	1823	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	100%	2	412
HPDOP20	HPDOP20R	1824	blastx.2	MHC HLA-DR-beta chain precursor old gene name 'HLA-DRA1' [Homo sapiens]	gb AAA59831.1	84%	45	542
HPDOS87	HPDOS87R	1825	blastx.2	40S ribosomal protein S14 [Podocoryne carnea]	emb CAA50506.1	95% 54% 91%	84 14 209	209 85 244

HPDOU54	HPDOU54 R	1826	blastx.2	N-acetyl-beta-glucosaminidase prepro-polypeptide [Homo sapiens]	gb AAA31828.1	54% 98% 89%	1 3 250	66 269 468
HPDOZ43	HPDOZ43R	1827	blastx.2	tripeptidyl peptidase II [Homo sapiens]	gb AAA63263.1	94%	64	489
HPDPC90	HPDPC90R A	1829	blastx.2	(AF073298) small EDRK-rich factor 2 [Homo sapiens]	gb AAC63516.1	98%	318	485
HPDPH14	HPDPH14R	1830	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	92% 87%	121 87	291 110
HPDPQ16	HPDPQ16R	1835	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	52%	349	519
HPDPR73	HPDPR73R	1836	blastx.2	(A010046) guanine nucleotide-exchange factor [Homo sapiens]	emb CAA08974.1	94%	131	460
HPDPS51	HPDPS51R	1837	blastx.2	(AF053356) ORF3, splicevariant [Homo sapiens]	gb AAC78797.1	76%	2	214
HPDPS90	HPDPS90R	1838	blastx.2	(AB021643) gonadotropin inducible transcription repressor-3 [Homo sapiens]	dbj BAA86989.1	42% 36% 36% 32% 37% 48% 57% 60% 42%	128 125 125 155 292 325 325 325 325	337 319 319 319 399 402 387 384 402

HPDPX12	HPDPX12R P00B	1841	blastx.2	ribosomal protein S17 [Homo sapiens]	gb/AA60284.1]	32%	390	518
HPDPY83	HPDPY83R P00B	1842	blastx.2	prothymosin alpha [Homo sapiens]	gb/AAA60213.1]	38% 47%	325 399	402 461
HPDQC34	HPDQC34R	1843	blastx.2	(AF038129) polyubiquitin [Ovis aries]	gb/AAB92373.1]	93% 94% 97%	7 7 226	642 642 453
HPDQH11	HPDQH11 R	1845	blastx.2	ribosomal protein L37a [Homo sapiens]	gb/AAA60280.1]	64% 61% 61%	639 639 639	689 692 692
HPDQH34	HPDQH34 R	1846	blastx.2	(AF115850) PAR protein [Homo sapiens]	gb/AD09822.1]	73% 94% 85%	3 345 226	371 494 267
HPDQI50	HPDQI50R	1847	blastx.2	succinate dehydrogenase flavoprotein subunit [Homo sapiens]	gb/AAA20683.1]	41% 99%	178 18	240 539
HPDQI55	HPDQI55R	1848	blastx.2	(AL022577) dJ353H6.2.2 (SW1/SNF related, matrix associated, 1 (SNF2L1))	emb/CAA18608.1]	96%	1	441

HPDQR20	HPDQR20R	1851	blastx.2	(PUTATIVE isoform 2) [Homo sapiens] RNA polymerase II 140 kDa subunit. [Homo sapiens]	emb CAA45124.1	91% 60%	10 555	639 761
HPDQR88	HPDQR88R	1852	blastx.2	similar to putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens]	dj BAA13213.1	90% 80%	2 555	550 584
HPDQS25	HPDQS25R	1854	blastx.2	Cctg [Xenopus laevis]	emb CAA59350.1	85% 72%	4 258	264 410
HPDQT32	HPDQT32R	1858	blastx.2	neuroleukin [Homo sapiens]	gb AA36368.1	100%	3	410
HPDQU81	HPDQU81R	1859	blastx.2	(AF068227) putative transmembrane protein [Homo sapiens]	gb AAC27614.1	98%	3	269
HPDQV07	HPDQV07R	1860	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	71%	35	574
HPDQW39	HPDQW39R	1862	blastx.2	(AF133093) ARD-1 N- acetyltransferase homologue [Mus musculus]	gb AAF22155.1 AF133093_10	100% 70%	113 466	466 705
HPDQX13	HPDQX13R	1863	blastx.2	Histone H3 [Asparagus officinalis]	emb CAA57811.1	72%	119	337
HPDQY23	HPDQY23R	1864	blastx.2	DNA binding protein [Homo sapiens]	emb CAB10847.1	97%	3	443
HPDQZ65	HPDQZ65R	1869	blastx.2	(AF199488) beta-actin [Coturnix coturnix]	gb AAF13710.1 AF199488_1	100% 63%	3 446	443 694

HPDRA44	HPDRA44R	1870	blastx.2	japonica[interferon regulatory factor 7 [Mus musculus]	gb/AAB18626.1]	72% 45%	4 362	240 559
HPDRA50	HPDRA50R	1871	blastx.2	actin [Diadromus pulchellus]	emb/CAA62806.1]	75%	16	189
HPDRF65	HPDRF65R	1872	blastx.2	ribosomal protein L8 [Homo sapiens]	emb/CAA82248.1]	58% 95% 50%	281 21 505	748 236 753
HPDRG73	HPDRG73R	1874	blastx.2	Ran [Canis familiaris]	emb/CAA77980.1]	94% 84%	50 451	460 528
HPDRM93	HPDRM93 R	1876	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj/BAA04888.1]	86%	12	302
HPDRO04	HPDRO04R	1877	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj/BAA04888.1]	100%	17	307
HPDRP36	HPDRP36R	1879	blastx.2	GLI-Krupple related protein [Homo sapiens]	gb/AAA59467.1]	100% 37% 78%	30 36 304	317 260 372
HPDRP41	HPDRP41R	1880	blastx.2	UHX1 protein [Homo sapiens]	gb/AAC50450.1]	88%	2	739
HPDRQ66	HPDRQ66R	1881	blastx.2	ribosomal protein [Homo sapiens]	emb/CAA81488.1]	91%	81	290
HPDRQ84	HPDRQ84R	1882	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb/CAA56869.1]	79%	4	555
HPDRR71	HPDRR71R	1883	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb/AAC31959.1]	98% 100%	16 381	390 422

HPDRS46	HPDRS46R	1885	blastx.2	(AF195094) gamma actin-like protein [Mus musculus]	gb AA08293.1 AF195094_1	98% 69%	15 301	299 369
HPDRS87	HPDRS87R	1886	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	100%	14	508
HPDR137	HPDR137R	1888	blastx.2	leukocyte antigen F [Homo sapiens]	emb CAA34947.1	60%	3	560
HPDRU03	HPDRU03R	1890	blastx.2	(AL021366) cCK0721Q.4.1 (PHD finger protein 2) (isoform 2) [Homo sapiens]	emb CAA16159.1	98% 90%	59 247	244 276
HPDRU37	HPDRU37R	1891	blastx.2	HLA-A9HH antigen [Homo sapiens]	dbj BAA11936.1	96%	1	231
HPDRV73	HPDRV73R	1893	blastx.2	vimentin [Homo sapiens]	gb AAA61279.1	90%	4	573
HPDRW09	HPDRW09R	1895	blastx.2	MHC HLA-DR2(non-Dw2/non-Dw12)a glycoprotein beta-chain [Homo sapiens]	gb AAA36278.1	95%	1	222
HPDRY37	HPDRY37R	1897	blastx.2	type XVI collagen alpha 1 chain, alpha 1 (XVI) [human, 1]	gb AB25797.1	64% 88% 50% 50% 48% 48% 52% 50% 44%	2 310 310 307 310 310 307 310 286	598 516 522 516 522 522 489 486 522

46%	310	498
45%	280	492
42%	295	504
46%	310	498
46%	310	522
42%	295	516
53%	310	492
44%	310	507
45%	310	522
48%	310	522
44%	280	489
46%	310	522
47%	295	489
59%	310	450
46%	310	522
31%	2	307
47%	310	477
43%	310	498
40%	280	492
47%	304	510
37%	14	304
48%	310	507
44%	289	498
40%	310	522
43%	280	456
46%	310	498
42%	295	492
46%	316	486
65%	2	88
62%	2	88

	43%	310	453
	41%	307	498
	64%	5	88
	58%	2	88
	41%	307	486
	62%	2	88
	43%	319	489
	61%	212	304
	40%	310	486
	54%	2	91
	44%	197	304
	42%	370	492
	30%	212	520
	31%	212	520
	58%	2	88
	58%	2	88
	48%	206	310
	58%	2	88
	55%	5	91
	43%	373	492
	45%	212	316
	55%	2	88
	56%	2	91
	38%	310	486
	32%	310	492
	50%	209	304
	38%	188	319
	57%	5	88
	54%	2	88
	57%	5	88

							57%	5	88
							58%	5	88
							55%	2	88
							55%	5	91
							51%	5	88
							55%	209	295
							48%	188	286
							53%	2	88
							51%	2	88
							54%	212	304
							48%	212	304
							55%	2	88
							55%	2	88
							55%	5	91
							50%	2	91
							46%	209	304
							41%	188	304
							45%	194	319
							48%	5	91
							42%	185	310
							51%	2	82
							45%	2	91
							47%	2	100
							41%	194	304
							51%	5	91
							46%	209	304
							40%	200	319
							36%	179	310
							55%	2	88
							47%	403	522

	46%	209	304
	44%	197	304
	53%	5	88
	50%	5	88
	51%	2	88
	41%	200	310
	53%	5	88
	44%	2	91
	53%	5	91
	45%	212	304
	48%	209	307
	54%	5	91
	48%	212	304
	45%	209	307
	53%	5	88
	45%	212	310
	42%	212	319
	51%	2	91
	43%	209	304
	45%	212	310
	47%	206	313
	46%	206	304
	40%	188	304
	48%	2	88
	53%	5	88
	53%	5	88
	48%	2	88
	46%	2	91
	50%	5	88
	42%	185	304

	41%	200	319
	46%	5	88
	48%	2	88
	46%	221	304
	45%	212	304
	50%	5	88
	48%	2	91
	48%	2	88
	48%	2	88
	47%	212	304
	53%	5	88
	42%	209	307
	44%	5	94
	46%	188	304
	41%	212	319
	37%	188	304
	58%	2	88
	48%	2	88
	50%	5	88
	51%	2	88
	52%	5	79
	50%	5	88
	44%	5	91
	51%	2	88
	50%	2	91
	46%	2	88
	46%	215	304
	45%	212	316
	40%	221	316
	50%	5	88

	41%	212	304
	41%	212	304
	40%	209	304
	48%	2	88
	44%	5	91
	50%	5	88
	44%	2	88
	48%	2	88
	51%	5	88
	48%	2	91
	48%	2	88
	45%	209	307
	43%	209	304
	45%	206	304
	41%	209	310
	41%	200	307
	54%	5	76
	52%	14	79
	48%	2	88
	50%	5	88
	50%	5	88
	41%	212	304
	42%	203	304
	38%	212	319
	50%	5	88
	45%	5	97
	45%	209	304
	38%	188	304
	36%	188	310
	52%	23	91

	48%	2	88
	48%	2	88
	48%	212	304
	41%	212	304
	38%	188	304
	52%	14	88
	44%	2	88
	51%	5	88
	41%	188	304
	40%	209	304
	40%	212	307
	40%	212	307
	48%	236	310
	41%	212	304
	40%	209	304
	37%	185	304
	35%	185	304
	53%	23	88
	46%	5	88
	54%	23	88
	50%	203	283
	44%	2	88
	41%	212	304
	43%	209	304
	61%	32	88
	51%	23	88
	50%	5	79
	41%	5	91
	40%	197	304
	50%	2	67

	36%	5	91
	38%	188	283
	45%	2	88
	45%	5	73
	38%	212	310
	47%	310	366
	45%	209	274
	37%	212	292
	45%	212	304
	41%	212	304
	41%	488	595
	38%	432	509
	44%	2	67
	50%	200	256
	45%	2	67
	37%	5	88
	52%	456	506
	47%	2	64
	50%	485	532
	35%	399	497
	72%	488	520
	53%	488	532
	53%	488	532
	45%	429	494
	57%	491	532
	40%	488	562
	41%	451	522
	39%	188	271
	54%	488	520
	63%	488	520

HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1]	40% 63% 50% 44% 42% 37% 40% 31% 32% 40% 36% 42% 60% 53% 53% 44% 55% 50% 56% 75 81 48% 53% 52% 75 48% 42% 44%	488 488 488 491 476 432 282 321 584 503 521 521 81 81 81 78 78 75 81 78 75 75 81 534	553 520 535 544 532 509 1 49 273 279 303 303 22 4 4 1 1 1 1 1 1 1 1 1 4
						98% 48% 60% 50% 46%	67 34 347 486 637	351 339 640 746 717

HPDRZ29	HPDRZ29R	1899	blastx.2	Lsc homologue [Homo sapiens]	emb CAA70356.1	50%	496	537
HPDVA01	HPDVA01R	1900	blastx.2	(AF153685) truncated calcium binding protein [Homo sapiens]	gb AADS1611.1 AF153685_1	60% 35% 81%	3 106 720	650 651 484
HPDVA06	HPDVA06R	1901	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	87% 66%	243 525	359 641
HPDVB70	HPDVB70R	1903	blastx.2	Ig mu chain C region, membrane-bound splice form - human	pir S16510 MHUM	93% 26%	92 11	820 706
HPDVC28	HPDVC28R	1904	blastx.2	retrovirus-related polypeptide - human	pir A44282 A44282	84%	62	436
HPDVG06	HPDVG06R	1906	blastx.2	immunoglobulin M heavy chain [Homo sapiens]	emb CAA47708.1	99%	3	326
HPDVI25	HPDVI25R	1908	blastx.2	APEX nuclease [Homo sapiens]	dbj BAA02633.1	83% 50%	94 334	417 633
HPDVI95	HPDVI95R	1909	blastx.2	(AF067370) cytoplasmic dynein light chain; Tctex-1 [Bos taurus]	gb AAC39268.1	100%	3	338
HPDVK79	HPDVK79R	1911	blastx.2	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION 1 ribosomal protein L18a - rat	sp Q64152 BTF3_MOUSE	77%	61	570
HPDVK93	HPDVK93R	1912	blastx.2		pir S03957 R5RT18	89%	116	634

HPDVL45	HPDVL45R	1914	blastx.2	cell cycle checkpoint control protein [Homo sapiens]	gb AAB39928.1	100%	4	303
HPDVL52	HPDVL52R	1915	blastx.2	hNop56 [Homo sapiens]	emb CAA72789.1	98% 56% 60% 29% 27% 31% 29% 28%	96 269 418 409 561 418 326 418 460	293 625 660 561 546 439 570 630
HPDVM61	HPDVM61R	1916	blastx.2	(AF123880) gag polypeptide [multiple sclerosis associated retrovirus element]	gb AAD48374.1	44%	5	268
HPDVM63	HPDVM63R	1917	blastx.2	(AF019036) human IgG1 neutralizing heavy chain with leader 1	gb AAF21613.1	97%	1	573
HPDVM86	HPDVM86R	1918	blastx.2	gamma-interferon-inducible protein precursor [Homo sapiens]	gb AAA36105.1	91% 100%	35 4	406 51
HPDVO67	HPDVO67R	1919	blastx.2	(AC005954) ZO-3 [Homo sapiens]	gb AAC72274.1	96% 84% 67% 41%	1 188 396 334	189 394 521 549
HPDVT37	HPDVT37R	1923	blastx.2	JUN-D protein [Mus musculus]	gb AAA39345.1	54% 78%	16 240	231 281
HPDVU28	HPDVU28	1924	blastx.2	protein phosphatase 2C	emb CAA74245.1	96%	163	693

HPDVU72	R	1925	blastx.2	gamma [Homo sapiens] similar to the Drosophila splicing regulator, 1 [Homo sapiens]	gb AAA19604.1	100% 37%	3 51	497 434
HPDVU88	HPDVU88 R	1926	blastx.2	glutathione peroxidase [Homo sapiens]	gb AAAA67540.1	91% 72%	51 595	599 648
HPDVV78	HPDVV78 R	1927	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	66% 85%	129 2	638 124
HPDWA88	HPDWA88 R	1929	blastx.2	calcium binding protein [Homo sapiens]	dbj BAA23325.1	94%	168	473
HPDWC30	HPDWC30 R	1931	blastx.2	GlcNac-1-P transferase [Homo sapiens]	emb CAB04787.1	85%	285	404
HPDWD67	HPDWD67 R	1934	blastx.2	open reading frame (458 AA) [Homo sapiens]	emb CAA36054.1	79%	319	14
HPDWD69	HPDWD69 R	1935	blastx.2	ribosomal protein S26 [Homo sapiens]	gb AAC26987.1	100%	9	353
HPDWD81	HPDWD81 R	1936	blastx.2	HLA-DRB4*0103 [Homo sapiens]	emb CAB06483.1	99% 63% 75% 44%	4 333 479 460	330 593 526 513
HPDWE11	HPDWE11 R	1937	blastx.2	polyadenylate binding protein [Homo sapiens]	gb AAB97309.1	82%	2	121
HPDWF93	HPDWF93 R	1939	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	91%	16	483
HPDWL56	HPDWL56	1941	blastx.2	complement factor B	gb AAA16820.1	96%	83	379

[illegible]

HPDWU55	HPDWU55 R	1955	blastx.2	protein disulfide isomerase-related protein (PDIR) [Homo sapiens]	dbj BAA08451.1	94% 37% 27%	1 1 1	726 624 636
HPDWU60	HPDWU60 R	1956	blastx.2	(AF151063) HSPC229 [Homo sapiens]	gb AAAF36149.1 AF1 51063.1	93% 80%	176 598	565 657
HPDWU63	HPDWU63 R	1957	blastx.2	cytokerin 15 (AA 1 - 456) [Homo sapiens]	emb CAA30535.1	100%	2	370
HSCPJ17	HSCPJ17R	1962	blastx.2	(AL031670) dJ68 IN20.2 (similar to FTLL1(ferritin, light 1 ATPase 6 [Homo sapiens])	emb CAB43181.1	97% 88%	260 405	403 485
HSDIA22	HSDIA22R	1963	blastx.2	NADH dehydrogenase subunit 4L [Homo sapiens]	emb CAA24031.1	77% 87% 47%	123 2 238	308 121 306
HSDIX73	HSDIX73R	1965	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland 1	dbj BAA07296.1	86% 100%	2 178	175 258
HSDZJ21	HSDZJ21R	1968	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	pir C59153 C59153	82%	1	105
HSIF84	HSIF84R	1969	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	78%	143	6
HSKJR50	HSKJR50R	1970	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	gb AAD03467.1	86% 98% 50% 49% 45%	2 2 169 11 342	337 289 498 247 566
HSLHT27	HSLHT27R	1971	blastx.2	URF A6L (NADH dehydrogenase subunit)	emb CAA24030.1	80% 66%	2 2	139 121

HSODB16	HSODB16R	1972	blastx.2	[Homo sapiens] cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	1	651
HSPSB24	HSPSB24R	1973	blastx.2	actin [Trichosurus vulpecula]	gb AAC26520.1	90%	61	732
HSPSB70	HSPSB70R	1974	blastx.2	BBC1 [Homo sapiens]	emb CAA45963.1	100%	3	539
HSPSB74	HSPSB74R	1975	blastx.2	WT1 [Xenopus laevis]	dj BAA11522.1	98%	1	162
HSPSB80	HSPSB80R	1976	blastx.2	unc-18homologue [Homo sapiens]	dj BAA19482.1	92%	2	691
HSPSC30	HSPSC30R	1977	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	91% 83% 100%	124 4 309	318 180 374
HSPSE86	HSPSE86R	1978	blastx.2	(AF161507) HSPC158 [Homo sapiens]	gb AAF29122.1 AF1 61507_1	91% 62% 54%	3 302 477	338 667 626
HPSG03	HPSG03R	1979	blastx.2	protein phosphatase 2A 65 kDa regulatory subunit, alpha isoform [Sus scrofa]	emb CAA84414.1	100%	3	191
HPSG13	HPSG13R	1980	blastx.2	protein p68 (AA 1-614) [Homo sapiens]	emb CAA33751.1	95% 76%	221 738	739 788
HPSG42	HPSG42R	1981	blastx.2	(AF056490) cAMP- specific phosphodiesterase 8A [Homo sapiens]	gb AAC39763.1	98%	3	554
HPSG50	HPSG50R	1982	blastx.2	(AB036829) skeletal muscle and kidney	dj BAA92340.1	80%	132	578

HSPSG89	HSPSG89R	1983	blastx.2	enriched inositol phosphatase [Homo sapiens]	gb AAC31959.1]	97% 66%	106 629	645 700
HSPSH39	HSPSH39R	1984	blastx.2	[Homo sapiens] (AF081484) alpha- tubulin isoform 1 [Homo sapiens] (AB015610) ribosomal protein S4X [Chlorocebus aethiops] SP-40.40 prepropeptide (AA -22 to 427) [Homo sapiens]	dbj BAA36501.1]	87%	68	772
HSPSH41	HSPSH41R	1985	blastx.2	ribosomal protein S6 [Homo sapiens]	emb CAA32847.1]	94% 95% 69%	129 367 480	404 498 683
HSPSH49	HSPSH49R	1986	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AA60289.1]	83%	96	821
HSPSI65	HSPSI65R	1987	blastx.2	ribosomal protein L5 [Homo sapiens]	gb AAA85654.1]	89%	3	755
HSPSJ71	HSPSJ71R	1988	blastx.2	medium tumor antigen- associated 61-kD protein [Homo sapiens] BST-2 [Homo sapiens]	gb AAA35531.1]	91% 54%	2 660	346 749
HSPSJ72	HSPSJ72R	1989	blastx.2		dbj BAA05679.1]	92% 98% 50%	97 410 561	432 592 632
HSPSQ22	HSPSQ22R	1990	blastx.2	UbcH5C [Homo sapiens]	gb AA91461.1]	100%	7	339
HSPSQ57	HSPSQ57R	1991	blastx.2	(AF044671) MM46 [Homo sapiens]	gb AAD02337.1]	100%	16	327
HSPSY67	HSPSY67R	1992	blastx.2	MITOGEN- ACTIVATED PROTEIN KINASE 3	spl P27361 MK03_H UMAN	99% 51% 47%	2 385 402	385 537 545

HSPSZ69	HSPSZ69R	1993	blastx.2	(EC 2.7.1.-) 1 1 1 unnamed protein product [unidentified]	emb CAB69291.1	98% 90%	2 285	283 317
HSPTA57	HSPTA57R	1994	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	64% 100%	337 318	735 338
HSPIN57	HSPIN57R	1995	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	55% 37%	2 178	157 360
HSSDM17	HSSDM17 R	1996	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	53% 94%	356 55	400 210
HTLCU84	HTLCU84R	2001	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	71%	185	541
HTSHG06	HTSHG06R	2002	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87% 94%	107 1	364 105
HULAP70	HULAP70R	2005	blastx.2	cytochrome c oxidase subunit VIII precursor [Homo sapiens]	gb AAA99313.1	100%	251	349
HUSGA11	HUSGA11 R	2006	blastx.2	carbonate dehydratase [Homo sapiens]	emb CAA5933.1	63% 100%	220 183	471 218
HUVFA39	HUVFA39 R	2009	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	34% 34%	460 436	92 8
HVCAA31	HVCAA31 R	2010	blastx.2	myosin regulatory light chain [Homo sapiens]	gb AA67367.1	98%	103	618
HVCAA37	HVCAA37 R	2011	blastx.2	complement factor B [Homo sapiens]	gb AAA16820.1	96% 88%	322 3	687 137
HVCAA94	HVCAA94	2013	blastx.2	F-1-ATPase beta-	gb AAA30395.1	95%	1	435

HVCAE15	HVCAE15	2024	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA59705.1	91%	3	695
HVCAE22	HVCAE22	2025	blastx.2	proteasome subunit C2 [Homo sapiens]	dbj BAA00656.1	97%	86	487
HVCAE56	HVCAE56	2026	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	90%	489	554
HVCAE56	HVCAE56	2027	blastx.2	ribosomal protein L7 [Homo sapiens]	emb CAA37139.1	74%	75	707
HVCAH03	HVCAH03	2029	blastx.2	putative dienoyl-CoA isomerase [Homo sapiens]	gb AAB86485.1	99%	3	551
HVCAH17	HVCAH17	2030	blastx.2	precursor [Homo sapiens]	emb CAA68392.1	96%	63	599
HVCAH56	HVCAH56	2031	blastx.2	ribosomal protein L3 [Homo sapiens]	emb CAA51839.1	62%	577	657
HVCAI08	HVCAI08	2032	blastx.2	(AF008304) protein inhibitor of neuronal nitric oxide synthase [Oryctolagus cuniculus]	gb AAC32530.1	90%	1	294
HVCAI79	HVCAI79	2034	blastx.2	sortilin [Homo sapiens]	emb CAA66904.1	92%	299	340
HVCAJ27	HVCAJ27	2035	blastx.2	(AK000449) unnamed protein product [Homo sapiens]	dbj BAA91172.1	97%	3	407
HVCAJ81	HVCAJ81	2036	blastx.2	(AB036060) ubiquitin [Oncothynchus mykiss]	dbj BAA88568.1	100%	130	375
HVCAJ95	HVCAJ95	2037	blastx.2	(AF073298) small EDRK-rich factor 2	gb AAC63516.1	80%	2	559
						99%	88	537
						100%	97	405
						81%	404	469
						100%	34	210

HVCAK02	HVCAK02 R	2038	blastx.2	[Homo sapiens] hnRNP-E2 [Homo sapiens]	emb CAA55015.1	89% 90%	90	467
HVCAL06	HVCAL06 R	2039	blastx.2	23 KD highly basic protein [Homo sapiens]	emb CAA40254.1	96% 30% 39%	3 302 432	308 559 554
HVCAO17	HVCAO17 R	2040	blastx.2	Nm23 protein [Homo sapiens]	emb CAA35621.1	70%	4	531
HVCAO63	HVCAO63 R	2041	blastx.2	similar to tubulin alpha-2 chain [Caenorhabditis elegans]	emb CAA85463.1	76% 72% 47%	82 269 342	276 322 410
HVCA P89	HVCA P89R	2042	blastx.2	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	83% 67% 29% 80%	69 509 520 681	512 643 669 710
HVCAQ53	HVCAQ53 R	2043	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	43	480
HVCAR87	HVCAR87 R	2045	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	74%	54	536
HVCAS08	HVCAS08R	2046	blastx.2	triase-phosphate isomerase [Pan troglodytes]	gb AAA35438.1	74% 55%	77 609	796 803
HVCAS52	HVCAS52R	2047	blastx.2	proteasome subunit C8 [Homo sapiens]	db JBAA00659.1	94%	1	579
HVCAU64	HVCAU64	2049	blastx.2	23 KD highly basic	emb CAA40254.1	97%	57	401

HVCBD18	R	HVCBD18	2050	blastx.2	protein [Homo sapiens] (AK000385) unnammed protein product [Homo sapiens]	dbj BAAA9131.1	59% 76% 90%	396 215 139	196 153 107
HVCBE76	R	HVCBE76R	2051	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	80%	24	431
HVCBF38	R	HVCBF38R	2053	blastx.2	neurofibromatosis type 1 protein [Homo sapiens]	gb AAA74897.1	85% 41% 71% 42% 88%	6 274 483 517 452	236 636 524 594 478
HVCBF89	R	HVCBF89R	2054	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	78% 70% 50%	41 666 590	325 725 679
HVCBG01	R	HVCBG01	2055	blastx.2	(AF184170) elongation factor 1-alpha [Sparus aurata]	gb AAD56406.1 AF1 84170_1	96% 37% 47% 40%	43 300 353 553	237 572 535 627
HVCBQ31	R	HVCBQ31	2056	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	90% 53% 45% 43%	65 327 328 482	343 647 663 559
HVCCA08	R	HVCCA08	2057	blastx.2	neurofibromatosis type- 1-GTPase activating- protein type III [Mus musculus]	dbj BAA06395.1	60%	23	256
HVCCK34	R	HVCCK34	2058	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	99%	94	696
HVCVC93	R	HVCVC93	2060	blastx.2	AICAR formyltransferase/IMP	gb AAA97405.1	92% 58%	206 454	454 648

HVCDD19	HVCDD19 R	2062	blastx.2	cyclohydrolase bifunctional enzyme [Homo sapiens] 1-8U [Homo sapiens]	emb CAA40626.1]	59%	564	674
HVCDF50	HVCDF50R	2063	blastx.2	similar to mouse Int-6 [Homo sapiens]	gb AAB58251.1]	98%	61	459
HVCDF77	HVCDF77 R	2064	blastx.2	3-methyl-adenine DNA glycosylase [Homo sapiens]	emb CAA03540.1]	95% 63%	3 343	341 618
HVVAB37	HVVAB37 R	2066	blastx.2	Ig mu chain C region - dog	pir A93131 MHGD	98%	2	640
HVVAC18	HVVAC18 R	2067	blastx.2	(AF035421) glyceraldehyde 3- phosphate dehydrogenase [Ovis 1 (A3001612) L3- phosphoserine- phosphatase homologue [Homo sapiens]	gb AAB88484.1]	39% 40% 39% 65% 38%	215 78 61 2 294	700 401 267 61 347
HVVAE73	HVVAE73 R	2069	blastx.2	(A3001612) L3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1]	47%	59	379
HVVAE73	HVVAE73 R	2069	blastx.2	(A3001612) L3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1]	91%	111	326
HVVAH91	HVVAH91 R	2071	blastx.2	(AL050109) hypothetical protein [Homo sapiens]	emb CAB43277.1]	87%	54	245
HVVAI03	HVVAI03R	2072	blastx.2	ribosomal protein L31 (AA 1-125) [Homo sapiens]	emb CAA34066.1]	98% 88% 61%	32 303 7	304 383 45

HVVA123	HVVA123R	2073	blastx.2	immunoglobulin lambda-chain [Homo sapiens]	gb AAA02915.1	80%	9	563
HVVAK46	HVVAK46 R	2077	blastx.2	v-fos transformation effector protein [Homo sapiens]	gb AAA58487.1	96% 61%	3 707	746 769
HVVAK85	HVVAK85 R	2079	blastx.2	unnamed protein product [unidentified]	emb CAA03726.1	94%	14	370
HVVAL81	HVVAL81 R	2080	blastx.2	phospholipase A2 [synthetic construct]	emb CAA01645.1	81%	157	471
HVVAS27	HVVAS27 RP00B	2082	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	9	413
HVVAW2 6	HVVAW26 R	2083	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	74% 56% 78%	7 272 447	444 601 503
HVVB091	HVVB091 RP00B	2084	blastx.2	gamma non-muscle actin [Oryctolagus cuniculus]	emb CAA43140.1	99%	2	436
HVVB09	HVVB09R	2085	blastx.2	(AK001810) unnamed protein product [Homo sapiens]	dbj BAA01922.1	89%	3	206
HVVBH88	HVVBH88 R	2087	blastx.2	Na,K-ATPase alpha- subunit [Homo sapiens]	dbj BAA00061.1	74%	1	519
HVVB116	HVVB116R	2088	blastx.2	IgG [Homo sapiens]	gb AAA02914.1	69% 92%	32 577	562 618
HVVB08	HVVB08R	2089	blastx.2	(AB014876) ribosomal protein L13 [Cricetus griseus]	dbj BAA34291.1	81% 96% 52%	156 40 419	479 234 601
HVVB155	HVVB155R	2090	blastx.2	ribosomal protein S17	gb AAA60284.1	99%	9	413

HVV/BK13	P00B HVV/BK13 R	2091	blastx.2	[Homo sapiens] (AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	88% 62% 43%	73 633 617	618 713 733
HVV/B065	HVV/B065 R	2092	blastx.2	immunoglobulin lambda light chain [[Homo sapiens]	emb CAA75033.1	68%	12	623
HVV/B088	HVV/B088 R	2093	blastx.2	immunoglobulin heavy chain VH-III region [Homo sapiens]	gb AAA98800.1	82%	77	481
HVV/B070	HVV/B070 RP00B	2094	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40958.1	68% 67%	20 318	334 491
HVV/BT60	HVV/BT60 R	2096	blastx.2	HYPOTHEICAL PROTEIN (FRAGMENT). heavy chain antibody 3D6 [synthetic construct]	sp Q16465 YZA1_H UMAN	100%	448	98
HVV/CB04	HVV/CB04 R	2098	blastx.2	heavy chain antibody 3D6 [synthetic construct]	emb CAA01549.1	69% 70% 30%	65 478 487	484 609 603
HVV/CB08	HVV/CB08 R	2099	blastx.2	(AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	76%	73	735
HVV/CC06	HVV/CC06 R	2100	blastx.2	(AB005894) ecalactin [Homo sapiens]	dbj BAA31542.1	72% 85%	206 144	325 203
HVV/CD81	HVV/CD81 R	2102	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1	96%	80	640

HVVCD90	HVVCD90 R	2104	blastx.2	type II mesothelial keratin K7 [Homo sapiens]	gb AAA36146.1	82%	98	748
HVVCE65	HVVCE65 R	2106	blastx.2	80K-H protein [Homo sapiens]	gb AAA52493.1	94%	2	214
HVVCF38	HVVCF38R	2107	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA37883.1	84%	114	467
HVVC29	HVVC29 R	2108	blastx.2	FB19 protein [Homo sapiens]	emb CAA73697.1	95% 65% 66% 65% 69% 63% 52% 63% 47% 44% 44% 70%	1 1 1 19 19 19 19 1 19 19 58 654	375 384 375 375 375 375 378 285 387 378 399 725
HVVC31	HVVC31 R	2109	blastx.2	(AF061034) FIP2 [Homo sapiens]	gb AAC16046.1	91% 98% 60% 25%	14 310 576 361	349 573 773 540
HVVC46	HVVC46 R	2110	blastx.2	phosphoglycerate kinase (EC 2.7.2.3) [Homo sapiens]	gb AAA60078.1	100%	3	350
HVVC93	HVVC93 R	2111	blastx.2	(AB021288) beta 2- microglobulin [Homo sapiens]	dbj BAA35182.1	100%	49	405

HVCH28	HVCH28 R	2112	blastx.2	(AF104913) eukaryotic protein synthesis initiation factor [Homo sapiens]	gb AAC82471.1	100%	3	350
HVCI28	HVCI28R	2113	blastx.2	extracellular matrix protein BM-40 (AA 1 - 303) [Homo sapiens]	emb CAA68724.1	100%	3	119
HVCI50	HVCI50R	2114	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	89% 79% 75%	44 382 644	403 663 739
HVCI85	HVCI85R	2115	blastx.2	Ig gamma chain C region - chimpanzee	pir PT0207 PT0207	96%	3	599
HVCI51	HVCI51R	2116	blastx.2	lysophosphatidic acid acyltransferase-beta [Homo sapiens]	gb AAB58776.1	94% 87%	1 273	261 371
HVCK78	HVCK78 R	2118	blastx.2	Ig light chain VII region [Homo sapiens]	gb AAA20217.1	85% 77% 84%	27 242 298	248 307 336
HVCL52	HVCL52 R	2119	blastx.2	NuMA protein [Homo sapiens]	emb CAA77670.1	99%	1	339
HVCL73	HVCL73 R	2120	blastx.2	ribosomal protein small subunit [Homo sapiens]	gb AAA35682.1	100% 91%	14 674	583 775
HVCM67	HVCM67 R	2121	blastx.2	Immunoglobulin lambda chain [Homo sapiens]	gb AAC37563.1	95% 78%	3 283	284 378
HVCM84	HVCM84 R	2122	blastx.2	apoferritin H chain [Homo sapiens]	emb CAA25086.1	68%	3	407
HVCN20	HVCN20 R	2123	blastx.2	Hin-2 [Homo sapiens]	gb AAA64187.1	89% 71%	68 4	286 87

HVVCN54	HVVCN54 R	2125	blastx.2	[Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product [Homo sapiens]	gb AAA73002.1	70% 78%	17 17	388 337
HVVC013	HVVC013 R	2127	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	79% 48%	8 549	550 695
HVVC016	HVVC016 R	2128	blastx.2	alpha SNAP [Homo sapiens]	gb AAC80170.1	96%	251	346
HVVC087	HVVC087 R	2129	blastx.2	(AF191829) heat-shock protein [Littorina plena]	gb AAF12788.1 AF1 91829_1	90% 51% 93%	30 359 457	389 469 501
HVVC041	HVVC041R	2130	blastx.2	(AB019120) seven transmembrane receptor [Rattus norvegicus]	dbj BAA82518.1	52% 54%	2 573	436 644
HVVC088	HVVC088R	2131	blastx.2	(AC002528) alpha2(I) collagen [Homo sapiens]	gb AAB69977.1	88% 50% 49% 48% 47% 48% 49% 51% 48% 47% 50%	15 3 3 3 6 3 3 3 3 15 15	470 302 299 299 299 290 272 272 299 299 299 272

							47%	3	272
							46%	3	302
							53%	3	278
							48%	15	272
							46%	3	272
							45%	18	302
							51%	3	272
							45%	18	314
							47%	3	272
							46%	3	305
							49%	3	299
							45%	3	299
							44%	3	299
							45%	3	302
							45%	3	302
							48%	3	272
							45%	3	299
							51%	27	272
							44%	3	302
							49%	3	272
							45%	18	272
							47%	3	272
							47%	15	278
							48%	3	272
							45%	3	299
							45%	18	299
							43%	18	299
							47%	3	272
							42%	3	302
							45%	3	299

								48%	18	272
								45%	15	299
								42%	6	272
								44%	3	272
								43%	18	299
								48%	3	272
								42%	3	302
								43%	3	299
								44%	15	272
								43%	3	272
								43%	3	299
								43%	3	272
								46%	18	272
								43%	3	299
								43%	3	299
								41%	3	302
								38%	319	480
								43%	583	696
HVVCQ49	HVVCQ49 R	2133	blastx.2	(AF076191) gamma-actin [Trichosurus vulpecula]	gb AAC26320.1			76%	54	629
HVVCQ93	HVVCQ93 R	2135	blastx.2	90kDa heat shock protein [Homo sapiens]	gb AAA36025.1			89%	7	699
HVVC28	HVVC28R	2136	blastx.2	Rab5c protein [Canis familiaris]	emb CAA81626.1			91%	183	293
HVVC32	HVVC32R	2137	blastx.2	(AF015283) selenoprotein W [Homo sapiens]	gb AAB69859.1			80%	403	507
								100%	95	217
HVVCU50	HVVCU50 R	2141	blastx.2	ubiquitin-like protein [Homo sapiens]	dbj BAA04889.1			100%	65	307

HVVCV41	HVVCV41 R	2142	blastx.2	(AB010491) natriuretic peptide A type receptor [Homo sapiens]	dbj BAA31199.1	100%	2	292
						100%	309	482
HVVCW7	HVVCW75 R	2144	blastx.2	(AK000419) unarmad protein product [Homo sapiens]	dbj BAA91151.1	66%	283	309
						40%	399	479
HVVCX46	HVVCX46 R	2146	blastx.2	p48 [Homo sapiens]	gb BAB38382.1	100%	3	410
						54%	71	712
						50%	418	747
						100%	354	431
						51%	654	734
HVVCY29	HVVCY29 R	2147	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	97%	2	715
HVVCY55	HVVCY55 R	2148	blastx.2	Hrs [Homo sapiens]	dbj BAA23366.1	99%	2	511
HVVCY60	HVVCY60 R	2149	blastx.2	elongation factor-1 alpha-chain protein (EF-1-alpha) [Xenopus laevis]	gb AAA49700.1	86%	1	555
						38%	498	716
						42%	557	763
HVVCY62	HVVCY62 R	2150	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	90%	3	620
HVVCY75	HVVCY75 R	2151	blastx.2	ribosomal protein L34 [Rattus rattus]	emb CAA32574.1	96%	394	477
HVVCY77	HVVCY77 R	2152	blastx.2	phospholipid transfer protein [Homo sapiens]	gb AAA36443.1	98%	2	598
HVVCZ18	HVVCZ18 R	2153	blastx.2	UDP-GalNAc:polypeptide N-	emb CAA63371.1	95%	423	542

HVVDH44	HVVDH44 R	2156	blastx.2	acetylglucosaminyltransferase (GalNAc-T3) [Homo sapiens] (AF013622)	gb AAC39746.1	85%	20	562
HVVDM2 3	HVVDM23 R	2157	blastx.2	immunoglobulin heavy chain variable region [Homo 1] (AJ010446)	emb CAA09185.1	80% 74% 62%	81 308 541	338 502 588
HVVDM3 1	HVVDM31 R	2158	blastx.2	adenyl cyclase-associated protein [Homo sapiens] (AF016365)	gb AAA35507.1	98%	3	446
HVVDM4 5	HVVDM45 R	2159	blastx.2	hexokinase 1 [Homo sapiens] (AF016365)	gb AAC15863.1	96%	66	155
HVVDN29	HVVDN29 R	2162	blastx.2	ADP-ATP carrier protein T2 - human	pir S03894 S03894	95% 25% 56%	8 29 615	643 559 683
HVVDN77	HVVDN77 R	2163	blastx.2	Lon protease-like protein [Homo sapiens]	emb CAA53625.1	97%	4	594
HVVDP70	HVVDP70 R	2164	blastx.2	SM22 alpha [Homo sapiens]	dbj BAA21839.1	92% 39% 48%	61 294 287	309 593 415
HVVDQ46	HVVDQ46 R	2165	blastx.2	destin [Sus scrofa]	dbj BAA14105.1	64% 56%	106 285	513 485
HVVDQ49	HVVDQ49 R	2166	blastx.2	calpain (EC 3.4.22.17) large chain 1 - rabbit (fragments)	pir A24815 A24815	97%	2	103

HVVD512	HVVD512 R	2167	blastx.2	Ig kappa chain NIG2 precursor - human	pir JE0244 JE0244	89%	91	726
HVVD521	HVVD521 R	2168	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	95% 68%	74 690	727 746
HVVD535	HVVD535 R	2169	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	88% 67%	80 636	736 803
HVVD129	HVVD129 R	2171	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb AAC17119.1	72%	121	612
HVVD144	HVVD144 R	2172	blastx.2	ch-TOG [Homo sapiens]	emb CAA63212.1	98%	2	460
HVVDW0	HVVDW02 R	2174	blastx.2	retinoic acid induced gene E [Homo sapiens]	emb CAA92321.1	79%	3	200
HVVDW6	HVVDW61 R	2175	blastx.2	chimeric monoklonal TSH antibody, gamma chain [synthetic construct]	emb CAA00676.1	86%	2	229
HVVDX90	HVVDX90 R	2177	blastx.2	(AF149822) mitotic checkpoint protein BUB3 [Mus musculus]	gb AAD38038.1 AF149822_1	84%	23	511
HVWLME4	HVWLME48 R	2181	blastx.2	calpain II [Sus scrofa]	gb AAB17381.1	95%	3	140
HWMIB35	HWMIB35 R	2183	blastx.2	ZZ/beta-Gal' IgG-binding fusion protein [unidentified cloning I	gb AAB00807.1	96%	49	219

HWWEF9 0	HWWEF90 R	2185	blastx.2	(AL035461) dJ967N21.3 (novel protein similar to predicted 1	emb(CAB55274.1)	95%	61	300
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[0048] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[0049] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than $1.0e-07$, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a

percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0050] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[0051] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0052] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0053] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0054] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X. Techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0055] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

RACE Protocol For Recovery of Full-Length Genes

[0056] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A⁺ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0057] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., *Nucleic Acids Res.*, 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0058] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[0059] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., *Nucleic Acids Res.*, 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This

method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the ovarian antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant ovarian antigen.

[0060] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or

2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0061] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0062] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altting-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altting-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0063] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lacmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR[®]2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[0064] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0065] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of ovarian associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0066] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0067] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0068] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for

example, antibodies of the invention raised against the ovarian polypeptides of the present invention in methods which are well known in the art.

[0069] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0070] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide

sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z HOVCD34	SEQ ID NO: X	Contig ID: X	EST Disclaimer Range of a Range of b 1 - 314 15 - 328	Accession #'s
	11	396327		BF032064, T40388, BG232493, AI917132, BF526832, AI554435, H86931, AC007262, AC026722, Z98742, AP000115, AI121969, AI159996, AP001717, AL133771, AL1354674, AL133802, AL031846, AP000308, AL139343, Z97629, AC001035, AL049832, AP000048, AL020995, AC011292, AC007955, AL1356103, AC004938, AC002492, AC068811, AC003311, AL008721, AC011749, AL024473, AC006354, AC002351, Z93015, AC007172, AC005230, AL139342, AF165926, AL121902, AC007025, AC005181, AL158841, AC011742, AL163201, AC009024, AC008269, AL139277, AC007964, AC007938, AF205588, AL139185, AC006478, AC007784, AL034395, AL136000, AC007344, AC010731, AL122013, AC002288, AL135975, AL121721, AC066590, AL139232, AC024164, AL031662, AC007358, AC009481, AL035035, AL033533, AC010789, AC009498, AC007850, AL020998, AC018684, AL034451, AL135783, AC008066, AC005030, AL049562, AL138706, Z95125, AC007461, AC011475, AL117337, AL117694, AL121915, AL049776, AL078596, AL035089, AL096764, AL049563, AC002553, AL035067, AC007438, AC018642, AC005550, Z99496, Z98036, Z99291, AC003119, AC007446, AC020751, AC068314, AC003035, X87344, AC066598, AC073175, AL139351, AC012156, AC006514, AC010582, AC018832, AC006142, AL139353, and AL163247.
HEBGDS8	12	498281	1 - 340 15 - 354	BG253988, BF508504, AA187211, H44280, BG251021, AA431830, AW962811, AA355921, H06638, BG259131, AV729233, BG191160, BG027014, T48526, AW298232, and AL138828.
HETCD42	13	535352	1 - 2333 15 - 2347	AL079360, AL137870, AL139146, BG260515, AV714769, AL137391, BF084453, AV713475, AV757390, AL138193, BF981793, AV713896, BE886752, BE889586, AW863749, BE882133, BF984505, BF983192, BG033275, BE537808, AL138496, BF978549, BF971293, AV758458, BF978970, BE897839, BE891773, BG028552, AV756779, BF348380, BE544852, BG180994, AL138423, BE783926, BE790149, AV647651, BG180514, BE886542, BF669771, AW950287, BG030964, AL133929, BF540824, BF672669, AL308837, BE882889, BF244654, BF666694, AV647698, BG169993, BF790368, AV723145, AV732863, AA122236, AV647695, AV715522, AV685920, BG028308, AV647569, BF105115, BE892120, BF699505, BF669431, BE436129, BE543091, AW363937, BF667030, AT40603, BE568179, AV715344, AL698125, AL678683, BE748490, BF699848, BG000598, AV766040, BF036918, AA911996, BF790701, AT740699, BE129905, BF695828, BE748787, BF694681, BE049332, BE501459, BF791119, BE242503, BF240540, AL566017, BE739216, AB62778, BF103607, BF383055, BF089920, BF383113, BE574696, AW439230, BF028165, AL992130, BF029869, BF214255, AA083269, BF692328,

					BF028909, BF028950, N31326, BF670821, BF211706, BF701480, BF670811, BE866031, AI917193, AI570519, BE568353, AI095016, BF130290, BF245935, AA731991, BE789179, BE018220, BE789639, AV706601, BE873916, AI784504, AIU15711, AIU157154, AA807683, BF214737, BE866674, AA521441, BF697291, AI097040, AA159802, AIU155086, BF576547, BF001380, AA577000, BF576765, AI421580, BE042461, AA315644, BF241476, BG165631, AI954071, AI949499, BF001429, BF178240, AI088027, BF693411, BE866506, BF243338, BF238642, BF213391, BF693271, AI590159, BE564554, AI870962, AA291279, BF696346, AI683299, AA452797, BF691651, BF697614, BF574483, AI353173, BF574392, AI922454, BE878946, AA613953, BE301705, W46431, AI983758, BE138832, BF381737, BE568565, BF126639, N21374, BF793733, AV757543, BE175751, BF211165, BF693918, BE838119, BF575927, AA083228, AA626504, BE568752, BF993159, BF248184, AI747452, AV647219, AA514125, AI580851, AI02371, AV758280, W52465, AV339075, AW627843, AV580954, AA729798, AA165015, AI501712, BF923406, BG025081, AI095888, BF132421, BE865839, HI2391, AW193393, BG113656, AI750428, N35068, AW628469, BF381687, AA018858, AI537545, AI539228, AV647526, BE739676, BF244248, N43807, AI355889, BF219513, AW305167, AA248634, BF670216, BF208900, D58212, BF576833, BE567828, AV692522, AW316752, AV763220, AA249298, BF221484, BE247748, BF336472, BE567395, AV704009, BF336476, AC002543, U03851, U03269, UI6741, M80589, and M25554.
HTXKC18	14	535854	1 - 864	15 - 878	AA547979, AI085242, BG029528, BF725761, BE162539, AI801505, AI588712, BF804385, AI60580, AI037714, AI079734, BE062478, AA483256, BF811714, BF681619, BF804359, BG180976, BE178231, AV760941, BE252421, AW021116, AI439372, AA594157, AV758870, AW819125, AI043351, BE062476, AA643770, AI583252, AI923052, BE178064, AI404117, AV760391, AI038606, AV741663, AA528503, AW855643, BE301584, AA528496, AW699227, AV969941, AW833865, AI380617, AA579419, AV760014, BF868994, AI612142, BF840771, AV760389, AI251576, AW023111, AI037683, AW827182, AI040038, AV237905, BE677029, AI491765, AI042373, AI499298, AI421755, AW020150, AI174876, AI821467, AA469327, AI612070, BF244530, AW855528, BE063437, AV779609, AI583466, AA812058, BF821009, AV763276, AV726091, BF821897, BG152386, AI611533, AI565084, AA832016, AA828047, AA857812, AI275982, AI610941, BE150580, AI299882, AV760915, AI301373, AA838091, AI457389, T74524, AI121655, AC005520, AC006312, AI356379, AC008569, AI024498, AC007546, AC002094, AC018758, AI158040, AC005911, AC005402, AI109804, AC007637, AC005940, AC004089, AP001435, AC011449, AI096840, AC005102, AC004867, AC021016, AI121586, AI034548, AC004967, AC005736, AC005480, AC008403, AC005684, AC009516, AC020916, U91321, AC005755, AI130137, AF000704, AI050318, AC005331, AF168787, AC002350, AC005387, AC005952, AC010271, AC007731, AC005412, AC020552, AC002312, AC008753, AI034379, AI121653, AC005197, AI157838, AC006597, AI138787, AC005971, AC004217, AC007597, AF045555, AC018720, AI355385, AC006597,

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H1DRK20	15	553765	1 - 1300	15 - 1314	AL531625, BE249834, BE249869, AU133584, AU133954, BE293561, AV692312, AW957051, BE293519, AU135103, AA339208, AV176043, AV690099, AU04273, T60502, BF374345, AV655442, AV804571, AV804603, T70509, AV688378, H47199, H93928, AV694565, AV694238, T68223, T68956, T68126, T68045, AA337893, T69698, AW804991, AV804996, T68924, AW372297, T72305, AV696946, AV696947, AE01941, AA344625, T71155, T72771, T56196, T73042, BF992875, AL133687, BE392020, AV693194, BF848482, AW104835, BF369544, T74806, AL363265, T68644, T60607, AA779168, T68483, T67851, AV647855, T73703, AD66591, AR034619, S67310, L15702, X72875, AX014918, AF019413, X00284, K01566, M15082, and M59240.
H2MBD33	16	558474	1 - 425	15 - 439	AV957931, AW957932, AA308306, AL633677, BE538201, BD44997, AW856247, BF061419, BE787711, AW874580, AA503529, AW117709, AU613324, AS61159, AU133205, AA133693, AA747898, AU160258, Z19706, AA405171, AU156212, BG231867, AL098698, AA579013, U88573, A75315, AC016816, X87344, AC000117, AC004506, AC004522, AC004899.

HSYBX61	17	558708	1 - 1094	15 - 1108	<p>AC005075, AC005919, AL122002, AC001972, AC004977, AC008444, AC005771, AL160237, AC004066, AC025614, U73642, AC006024, AL359833, AL009614, AC010470, AL021939, AL138773, AC009037, AC016941, AC013246, AL445189, AC010458, AC027329, AL21950, ZS3313, AL049648, AL109921, and AC007368</p> <p>AD50214, AD74445, BG116469, BF666951, AV705261, AU050761, BF215604, BF700388, AW65220, BF497160, BE958106, BF608544, AW901579, AA863159, BG105211, AW901581, AA933061, BF691307, BF081566, AU153641, W48793, BE701906, AW901558, BF363888, W49619, AA757163, AL127140, BF363884, BE812771, AW901562, AA0460401, AU127328, AU120201, AW901572, BE701904, AV694302, AW901560, AW951188, BE938964, W24640, BE701884, AU207705, AW360819, AL041311, AV360785, T29223, AL765920, BF382797, AA747483, AV136630, NS3338, R38385, AV900970, BF970590, BF885816, AW899304, N87392, AA693316, N89144, AL675151, AW900934, BF529881, BE76210, AU754509, BE464612, BG167754, N34064, X57348, X53615, S42303, AB017095, AB008811, M31131, AF097593, X07277, S45013, X54315, S45011, AF177682, Z27439, Z27440, and Z27441.</p> <p>BE262771, AU024014, H91016, H90904, AV695478, BE138594, AL036909, AL560085, AL537397, AG302833, AA744018, AV756491, AL038842, T74524, AW023302, AL888468, AU076236, AA181917, AA468022, AL678867, BE147833, U91323, Z84469, AC005726, AC006050, AL139182, AL121893, AC005829, AL078391, U91323, Z84469, AC007934, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL033804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000558, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL156354, AC007686, AC000379, AL109797, AL135744, AC001115, AC002346, AC005080, AC011455, AL008635, AL133417, Z95114, AC007783, AC004634, AP000501, AC007216, AC018751, AF053356, AC002312, Z97985, AC002550, AC005236, AL047995, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004838, AL136298, AC018770, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP00350, AL139153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, U91326, AC020947, AC020908,</p>
HELHC03	18 -	562745	1 - 1161	15 - 1175	<p>BE262771, AU024014, H91016, H90904, AV695478, BE138594, AL036909, AL560085, AL537397, AG302833, AA744018, AV756491, AL038842, T74524, AW023302, AL888468, AU076236, AA181917, AA468022, AL678867, BE147833, U91323, Z84469, AC005726, AC006050, AL139182, AL121893, AC005829, AL078391, U91323, Z84469, AC007934, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL033804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000558, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL156354, AC007686, AC000379, AL109797, AL135744, AC001115, AC002346, AC005080, AC011455, AL008635, AL133417, Z95114, AC007783, AC004634, AP000501, AC007216, AC018751, AF053356, AC002312, Z97985, AC002550, AC005236, AL047995, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004838, AL136298, AC018770, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP00350, AL139153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, U91326, AC020947, AC020908,</p>

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HOFPMP70	19	585385	1 - 333	15 - 347	AL029119, AL0132116, AL0122873, BF985387, BE880467, AL0134725, BF763276, AL0127421, BF986272, BF752117, BF79945, AL0131326, AL0139214, AA314523, AA852641, AL0129752, AA307371, BF696550, AL0130590, AL018964, BG178180, AL0131491, BF669193, AL0136184, BF985661, BE410823, T88678, BF749656, AW239136, AA242999, BE620262, BF698331, AA375736, BF782468, BF965316, BF327652, BE876259, BE875957, BF796542, BE620043, BE889731, BF796049, T07406, BF570489, BF785080, BF745306, BF681401, AW579861, BF985601, AL0128901, BE156508, AL036766, AL0128389, AA373047, BF107335, BF985880, BG17811, T71831, BF985602, BF903411, T71811, AA362982, AV750113, AA092055, BE732006, BE731395, AL0127766, BE156632, BE733317, BE273157, BF733809, AL040406, AW455795, BF107170, BF752590, AW363271, U01153, X15187, AK025459, X00848, Y09136, X76301, S74939, M26596, M33716, and A3032000
HSKNZ25	20	585675	1 - 674	15 - 688	AL023388, AA703880, BF525904, AA309525, AA488891, AA836122, BF348027, AA465431, AL10146, AL302088, AA584447, AW968376, N46920, A1986100, BF733038, BE160619, AL077517, AL040766, AA890243, BE244498, AA323569, BE160856, AA771925, AA489237, AA126066, AV66598, AW372110, AW137313, AL039325, BF959941, AA046254, AW136539, BE072182, AA465360, AA917759, AW962078, AW816387, BE935535, AA573136, AW517075, BF903430, AA5086, AW797195, AL368519, AA078308, AL022603, AL354688, BF761820, AL565643, AA310621, W87764, AV852367, BE149694, AV653343, BG010915, BF989770, BF762909, BF834278, BF897554, BF929290, AV861486, AL052645, AA280250, BF857730, BF857711, A W857610, A W857593, BE729724, AL118895, A W857604, AW938518, BE142184, BF106513, AA077547, AA577804, AA496279, BE089188, BE142866, BE161095, AW888812, AW857605, AW945790, BF750582, BF813834, AL651771, BE089952, AW898784, AW845700, BE393138, AV9092136, AW845696, BF953515, AL024458, AC005562, AC007204, AL031228, AL035246, AC012309, AC010632, AC003975, AC011460, AC007275, AC008821, AL445249, D28126, AC009489, AL122001, AC003682, AL121905, AC008557, AL136317, AL139277, AL1022318, AC078899, AC002301, AL360088, AP000346, AC022137, AL033526, AC068948, AL133162, AL121985, AC006504, AC019173, AL132656, AC000397, Z95704, AC010328, AC008176, AC007388, AL161802, AL121932, AC006462, AL365505, AL031775, AP000431, AP001675, AC022148, AC008969, AC074331, AL035458, AL078614, AP001464, AC004976, AL109943, AC022596, AP000498, AL163202, AB026898, AL137070, AC008554, AL136419, AC010889, AC002049,

HDPEK39	21	588869	1 - 736	15 - 750	<p>AC002054, AC002472, AC008018, AC008813, AP000285, AL139008, AL108928, AL020995, AL121873, AC008752, AF017190, AC007664, AP000041, AP000109, AL031668, AC009424, AL021155, AP001715, AF017189, AC0010522, AC008555, N33788, AL136130, AL002753, AF240618, AB019441, AL034407, AC007882, AC022150, AF196969, AC002041, AL136169, AL109923, AC002209, AC0010645, AL121969, AC000345, AL138072, AC0018641, AL163152, AL118502, AL0121823, AL1390865, AP000353, AC008739, AP001631, AB019438, AC008044, AL004979, AC000051, D87002, AC004924, AL003587, AL135960, AL131016, AP001670, AL1359204, AP001748, AL035086, AC006039, AL121772, S50469, AC0012331, AC002308, AC005155, AC005070, AL096700, AC0019063, AC006198, AC004045, AL133350, AL139090, AL1359433, AF017188, AC001698, AC0018673, AC008770, AC002642, AP001660, AL049742, AC006001, AL121926, X87579, AL1354872, AC008639, AP000356, AL032821, U64455, AC007981, AC023490, AP001671, AL132990, AL132987, Z49237, AC0010506, U6024591, AC004706, AL109918, AP001233, AC0010854, AC0011718, AL1223364, Z97880, AC0012330, AB000381, AL1358777, AC008132, AP000550, AF017732, U71148, Z97988, AC0016940, U64453, AL109653, AC0013412, AC002507, U47924, AF270570, AL136528, AC0010197, J276208, AL276207, AF001550, AC007228, AB016195, AC005250, Z82975, AL1359703, AC006359, AL163218, AC0016816, AC005669, AC005820, AC006115, AL009610, AF017191, AC0010970, AC006359, AL021918, AC000385, AC008443, AF017192, AC005598, AC007717, AC008379, AC008353, AR036572, U91328, AC009405, AF224492, AL079338, and AL031732.</p> <p>BF892783, BF894772, BE243071, BF892143, BF8902796, BF892140, BF899233, M18044, BG0925, J04145, AF268593, S52159, S52157, S52155, S52154, S52152, S52161, I19138, M76724, S52155, M82856, and U59801.</p>
HLIAB07	22	638220	1 - 870	15 - 884	<p>AW411008, AL1956068, AL140111, BE502158, BE140544, BE559935, AP009487, AW066443, BF237868, AV7114206, AL1901924, AL1944409, AV7117288, BG256432, BF976795, BG166509, AW080966, BG619019, W52136, AV703106, BE619682, AL189286, BE566002, AW084868, AL168712, AV711092, BF697110, BE567660, BE409693, AV710866, AL801202, AC02877, AW4110017, BE568300, AL26321, BE963864, AL523891, AL184261, AV691952, BE091071, AV746007, AL1566878, AL151257, AL144492, AA826477, AW083498, BE787965, BF851971, BE535774, AW410030, AL1399880, N33696, BF435067, AL809283, AL018420, BF967835, AL1819520, W30822, AL128356, AL025970, BF072642, BF081971, BF081981, AL1880707, AL127920, AV779049, BF676071, AL206487, AW471111, AW028734, AV762883, AL1505971, BF881900, AA889268, AA887476, BF858077, N36122, AL190417, AL127953, BF696643, AA843205, N38923, AL566572, AL066676, BE931182, AL909070, BE879114, BF02182, W37751, AV70086, HH4832, C18042, AL142846, AL139565, AL688339, AA679046, AA588794, AL127971, AV716260, AA001534, AV7119696, AL074105, AA642662, N29465, AV762116, AL375763, N47999, W67351, AV723563, AL627627, AA494292, AA973740,</p>

HHGAS83	23	654868	1 - 833	15 - 847	<p>AI016758, BF081942, AA151258, BE905596, AI225090, BE875848, W02508, H46679, C04154, T60074, BF678014, BG106733, H41469, BE270088, N96981, AA844464, AA303561, AA583307, AA461150, AV762407, AA127062, D19615, A1752939, R81805, AA025474, AI066496, W37750, H41039, AV745238, AI924481, AI924470, BF004170, AI344530, AW806070, H72482, AA018348, AA514449, BF457775, AA125039, H29277, AI004753, AI355113, AA441211, BF892448, BF825656, T35178, H23508, R81909, W31172, AI976020, F35745, H65927, H22467, H18879, H20360, AA354526, AA460845, AA610792, AA844581, AI984747, AA332788, R89209, AA694042, H18878, R35084, N30666, AA834054, W67532, R89107, H58424, AA650593, AA018347, R82743, AW572104, AA055147, AA301393, BE463668, AI024508, AV683793, AI630440, H42928, AA343997, AV690683, N32744, AV689469, AA890629, AA433978, H46678, BF222315, BE866553, AV888410, AV685213, W25676, BE091036, AA080418, AA337082, AW088862, AA112174, R34238, T35674, H40286, BE568860, T34863, N94289, AV705344, H20171, W02840, AW380085, AW380101, A W948839, AV380091, AA353222, AI184040, T35401, H58425, AW380097, N51206, BF056703, AA650550, T35474, AV738416, H72883, AA054937, AA704634, R32565, AI198351, BF842567, AW885411, AA464336, BF967553, N46497, R32185, F24158, R32236, BE925396, AI612942, W92351, AX015062, AF161504, AF151884, AC007237, and AX014860.</p>
					<p>AL533363, AW156912, AI816293, BG178409, AI533268, BE780411, AW157766, AI798138, AD963352, AI928783, A W262125, BE791202, AV759165, AI674833, AI039883, AW162502, BG178768, BE87936, AV722302, BF571229, BF339857, AI830091, BF126571, BF674685, AI986467, AW148939, BF345205, AV711322, BG236045, AW272546, BE872856, AV723940, BG163828, BF967950, BE745145, AA572799, BE899054, BE615020, AW161689, BF529506, AI206529, W93860, AL533542, BE799051, BG232073, AI200704, BF973309, BF679748, BF974878, AI199823, AI817392, BE184997, BF967861, AV710824, BE338381, N25541, AA669821, AV702224, BF528571, BF530905, AA593762, AW157587, AW157474, AA128267, BF974287, AV711487, A W029137, AV077767, AV707789, AA864492, AV733623, AI077676, AA376598, AA575898, AA708590, AA843178, AI338374, BF239951, BF820971, AI832599, AI139644, BE273067, AI745646, AI340072, BF210950, BE165278, BF206608, BE614815, BE165293, BE165267, BF700461, BF821744, AI776918, BE165274, BE165284, BE874868, AI630859, BE165285, BE165295, BE165281, BE165289, BE165094, BE165276, BE165272, BE165273, BE165275, BE165110, BE165296, BE165286, BE165277, BE165157, BE165165, BE165084, BE165294, BE165290, BE165087, BE165271, BE165077, BE165089, AV734637, BF531286, BE165095, BF772629, BE165270, BF339501, BE165078, BE844143, BE165088, BE165099, AA814150, BE122846, BF967319, BE10478, BF342269, AW386221, BE165090, BE279632, BE165085, BF351288, BE165116, BE165091, BE165098, AI139451, AI673724, N34138, BE165092, AA970318, AA506290, W67498,</p>

						BE770073, BF216394, BF680640, BF793193, BE165292, BE938895, BF924501, AV733983, BE763913, H42152, BF820364, A1923629, W90644, AW953889, H43136, AW953838, A1523448, AA029738, AA034262, BF737798, BF346328, BF821748, AA80834, BE165106, BF772626, BF351295, I01957, N21386, A1191285, A1085683, AA480834, BE165106, BF772626, A1660175, H42506, BG230993, BF351292, AV742697, BF665930, A754274, A1907958, BF820365, BF674337, BE165101, A1029498, AA740348, BF785360, AA506938, AA457725, AW005610, N20640, H26094, H42476, AA010689, AA039989, N36838, A1107980, AV755945, BF448386, BF815571, BF675649, AA642726, AA455488, W74383, BE165269, BE165280, A175434, BF967367, BF739156, BG164837, F32477, AW511436, R99698, BG171345, A744421, R79563, AA129366, T34865, A1753955, N36170, W27617, AA845291, BF772634, AV729590, AV725066, BE122839, BF737242, H25701, W79200, A1629624, R99713, BE375128, A126699, A1866674, BF698421, AA551974, BF574054, BE122838, BF737793, BF351314, AC003688, AF067171, AF183425, AF044671, AF161586, AL050182, A1297742, AF161587, AF161588, and U65413.
HTSGU37	24	704405	1 - 502	15 - 516	AW163711, A1815378, AL524692, A813566, AF019406, AL050341, and M95610.	
H2LAN34	25	705692	1 - 530	15 - 544	AA314140, A1623759, AW954842, AV747509, AF068701, AW005593, A1420537, H65282, AA469272, AW469280, AW959628, AW966534, AW966053, D58283, AW975618, D80043, AW966029, D57483, AW964756, AV699550, D80253, AW973334, AW958993, AV718489, AW978661, D80164, AW966531, D80346, AW975621, AW959799, AV699447, AV718440, AW960465, AV720028, AW978654, D80022, C14331, AW958992, AV718770, AW965163, AW949641, AV7073541, D59467, AW966022, AW965177, AW973485, AV718844, D51423, D59859, D81030, AW966041, AV719783, AW966013, D80391, AW966065, AV720462, D59787, D80166, AV722801, D80195, AW959570, D59275, AW978648, D59619, D80210, D51799, AW964488, AW960553, D80240, C15076, AV719822, AV720791, AW966054, AV720203, AV718692, AV720731, AW966050, AV719188, AW973307, D80227, D80188, AW966002, AV719324, AV718938, D80024, D59502, AW959597, AV718633, D50995, AV755605, AW962082, AV718800, AW965197, AW965184, AV720211, AV718931, AV719557, D80196, AW973474, AV723927, AV724520, AW959136, AW959062, AW964477, AW956434, AW949656, AW949654, AV699927, D59889, AW949642, AW959202, AW960532, D80212, C14389, AW965138, AW964757, D80219, AV949632, D59927, AW973482, AW965185, D80269, AV718530, D80038, D50979, D80193, AW966075, AW949629, AW949633, AW962245, AW949645, AV719468, AV718707, AW949657, AW963175, D59610, AW960473, AW966059, AW956397, AW949653, AW949646, AW949658, AW949651, AW965196, AW949643, AW949618, AW973488, AW949655, D80378, C14429, AA305409, AV720878, AW959469, AW975613, AV701004, AW97330, AV720812, AV721386, AW966043, AW966023, AW753053, AW959582, AV723097, AW973447, AW960504, D80241, AW960564, AV700889, D80045, AW975623, AW960570,	

HPNIBZ40	26	711500	1 - 882	15 - 896	<p> AW966030, AW960454, C14014, T03269, AW178893, AW752082, AV700229, D51060, C75259, AW720654, AW973465, AW963176, AV742001, AV742667, AV701125, AV701335, AV701166, AV740430, AC012627, AC008554, AC011477, AC007204, AC024563, AC008626, AC2300, AX033851, A62298, A84916, AX027925, AJ132110, AR070327, AR018138, A62300, AX033851, A62298, A84916, AX027925, AJ132110, AR070327, AR018138, AX047063, AX047064, X67155, AX021518, A25909, Y17188, D26022, AX035434, AX020191, A67220, D89785, A78862, D34614, A1302649, AX020190, AF056896, AX047062, D88547, AR008278, X82626, AR077702, AB028859, AX028130, AR025207, AR067469, A1294956, Y12724, AF260572, AR074545, AB012117, X68127, AX015396, A82595, A94995, A1287395, AR088705, AB002449, A85396, AR074141, AR066482, AR060385, A44711, AX042372, A85477, AR008443, I19525, A86792, X93549, I50126, I50132, I50128, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, A3054175, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR066487, AR074136, I18567, A30438, D88507, I114842, D50010, Y17187, AF135125, AR008277, AR008281, A63261, AX035429, AX035428, AX035426, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, D13509, AB033111, A64136, A68321, AR060133, AR087528, I79511, AR071754, AR064240, AB037923, U87247, AB023656, U79457, AF123263, AR032065, Z82022, AG3887, X93535, and AR008382. </p> <p> AW104075, AX322168, A318382, AW582134, A559937, A635043, A3309573, AA664669, A1890503, AA747333, A4083698, A1002831, F31565, A3327808, AA604778, AA307971, AA101115, BF438598, AV656583, T41261, AA962042, BE147478, AA614771, AA548695, AA179423, AA657363, AV709285, A1708675, BG121326, A1350430, AW393836, AW393837, AA083697, AA171770, AW393902, T59870, F21378, AA679905, AA515952, F20900, AA828709, AA179773, AA230071, AA327627, T58575, AA669666, AA340945, T73373, AA805827, AA328641, AA729868, F31199, AA729864, AV378613, AA182721, AA150896, AA364450, AA229102, AA299112, W32976, F29405, AA886657, AA328937, AA079176, AA338431, F33309, AA363495, AA328073, AW361074, AW059576, D11891, D51386, AA502814, AA507714, AA299168, AW582136, D11796, F17656, AW778614, BE747323, BF437529, AA746958, D55360, AA484708, AA67968, A627228, AA507186, A1708996, A602512, D52903, A1302193, D53594, AA329939, AA341403, AA827269, A172100, T53280, A748072, BF906802, A1302449, T53153, AA304439, AA341417, AA962113, AA522638, AA604015, T63562, AA484205, AA593695, N68907, T94322, AA501477, AA181035, AA181548, AA847052, AA583572, D12365, AA180490, AA507806, A1628828, A630793, A1122870, A W276534, A W304926, A622673, A225033, A W270722, A W104696, AA578036, AA053440, AA773121, AA128815, A1679299, A W085649, A6621862, A W058229, AA756894, AA480608, A665010, A1884565, AA321126, N31278, AA187890, AA244150, AA747111, AA191223, A W270043, AA593407, T50429, W52460, AA132470, D53323, AA328902, AA159715, D54432, W68495, AA167322, </p>
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HLYPE52	27	732342	1 - 998	15 - 1012		<p>BF971932, BF237781, AW338866, AE63716, AA573832, AA987495, AW058614, AA128438, H51921, BF732971, H27808, H04212, AA093608, AI159855, BE872759, AE469694, AE282778, W69653, AW873554, AE688311, N77573, BE898545, AW601461, AE741570, BF831400, AA160897, H49117, AE348273, H27183, AA158489, H44990, H29282, BE884960, AE709626, AA159945, BF873908, AE795832, AE795829, AE140739, AE165355, AA846337, H28378, BF810845, BF813075, AE165952, BE140751, BE140728, W69654, AE984845, AE961817, FI15634, AW954779, R72015, AX011711, AF035771, AR070449, Z50150, AF004900, U82108, AC005600, AB016243, AB014460, AB026489, AB026490, AP001038, AP001732, and AP001039.</p>
HTTECH	28	745343	1 - 1010	15 - 1024		<p>AUI13137, AE133785, AUI17996, AE798884, AUI16829, AW847640, BE142866, AW836282, AUI20388, AUI21070, AV707591, BG170577, BF673669, BF345679, AW833146, AUI76603, AW833143, AV649129, AA683309, AW976291, AUI139634, BE144683, AUI14469, BE062166, BE144698, AW836280, AW902129, AW813625, BE157028, BE158876, BF513132, AV731068, AV731522, AW833033, AV731034, BF746208, BF770900, AW833187, AW854788, AW832969, BF800480, BF929942, AUI22701, BF675777, AW813623, BE820037, BF830719, AW819804, AW819805, AW936057, AW819798, AW835724, BE066033, BF244129, AV731276, BF748007, AUI19706, BE009738, AW833622, BE066010, BF853047, AW820049, BE675045, AW820116, AW835725, BE066035, BF808065, BF997232, AV712125, AE246137, BG164408, AW819881, AW820040, AW820126, BF947444, AW819806, AW845700, AW877560, AW835642, AW835349, BF754324, BE780891, AW845696, AL045241, AL046683, BF964660, AW820052, AW833180, AW817951, AW819969, BE062378, BG104752, BF756986, AW820114,</p>

HO/MO/090	746416	1 - 428	15 - 442	<p>AW819799, AW820115, AC022596, AL008633, AL1359763, AL098803, AC020717, AL138702, AC024092, AC060232, AL161730, Z82211, AL022577, AL035464, AL035090, AL137251, AL133406, AL356022, AL033530, AL355390, AL121938, AC007179, Z82205, AL139395, AL1049844, AL390023, AC024247, AC010175, M22334, AL080284, AL157360, AF064862, AF003535, AL034403, Z82899, AC008604, AL161804, AC048346, AC012082, AC002429, AC006479, AL030996, AK021593, AL133417, U65397, AL022144, AC004103, AC007090, AC0013410, AL445143, AK024101, AL163281, AC008518, AC002072, AC010235, Z82212, AF126403, U93574, AC016751, AL135918, AC023481, AL158206, AL031054, AC002335, AL139229, AC007159, AL049562, U93572, AC003106, AL445196, AC004531, AL132821, AL135936, AC003990, Z73965, AL390022, Z81009, AC004954, AC007253, AC003091, AL033524, AL121933, AF196972, AL103427, U93563, AC005609, AC004673, AC012442, U93571, U93573, AF149422, AC004917, AC007785, AC068069, AC005993, AP001690, AL136307, AL049629, AC005739, Z81145, AL021069, AC020530, AL096862, Z79699, AC006079, AL356982, L81652, AP001671, AL133500, U93569, U93566, U93565, AC008918, AL033528, AC008456, U09116, AL117191, AF248484, AC006070, AC015971, AC016623, AC003083, AC007204, AC007214, AC005686, AC008716, AL133249, AC005384, AC007558, AL109800, M22333, AC004029, AL161905, AC007000, AL109656, AC005823, AL359846, Z95400, AF148856, U93570, U93568, AC007089, L19092, L19088, M80340, AL121825, AC003085, AC022542, AC009262, AC004748, AL121868, Z82195, AC005308, AC008394, AC008178, AC002564, AL365276, AL033597, AC002523, AF064865, AL365503, AL136442, AC021472, AL454539, AC020647, AF127577, AC006559, U69729, AC007400, AC006287, AL020892, AL353587, AC004063, AL139109, AF110324, AC005230, AC008561, AC004058, AC024094, AC007488, AL136970, Z98751, AF149774, AL031665, AL365475, U93560, M80343, AL161659, AF036235, AC009319, AC022224, AL121735, AL145306, AL031151, AL353140, AL135879, AL121790, AL357155, AL121591, AC005994, AC008550, AC007845, AC019212, AL008987, AF172277, AL133370, AL121943, AC005024, AC010461, AL101698, AC006992, AC005915, M19503, AP002534, AP223898, AL033538, AL390035, AC004389, AL163207, AL109845, AC008436, AL359755, AL049555, AL121757, AC003098, AL049796, AC019650, AL109805, AL357507, AL136441, AL445192, AL049563, AL194928, AL109620, U93562, AC010176, AL136296, AC026888, AL1050329, AP000347, AL139192, AL1016219, AL163278, AC005201, and AL354777.</p>
HO/MO/090	746416	1 - 428	15 - 442	<p>AI0929681, A W592729, A6468798, BG2359038, AW250255, A W245532, A W651722, AW572033, AW250589, AU015535, BF0764886, AU124917, BF794818, AU125620, AU141564, AU142862, BF763314, AL125790, AL1435619, AU120837, BE886545, AU125751, AI220039, BE238310, BE925039, BG005263, BF739929, A A024938, BE895457, BE783414, A A467947, BE276994, BF986402, AU125668, A A250731, BG215130, AU131883, BF7129953, BF027149, T36005, BF218581, BE797690, A A211028, BE891460, BE885888, BF026383.</p>

HCND34	30	762806	1 - 816	15 - 830	<p> AU143011, BG252532, AL536067, AL538416, AL518012, AA471174, BE727048, BE792016, BG121144, BF979650, W40299, BG026681, BE299425, AV749633, BE547012, BE902225, BF025777, AL040485, BF303753, BG169183, RI7987, AL532385, BE538688, AL518448, AA471318, BE798701, BF307302, AA313413, BF306715, AA074578, BE122769, BF706640, Z41942, BE244339, AA181660, BF205625, AA196912, T35534, NS6034, T74205, BE269688, BF304135, AA238411, BE385651, AA092564, BE156028, AF046001, AC005899, AB032190, and AB013357. </p> <p> AL538129, AL525022, BE872112, AI111183, AI14736, BE896348, BE877234, AI174851, AV705883, BE875561, BE881218, BE881076, BE880128, BE879304, AV706307, BE875412, BE874647, BE879135, BE877386, BE877647, AV729201, BE898937, BE881222, BE876531, BE875889, AV726346, BE878894, BE875858, BE876704, BE874620, AI133323, AI133348, AL513828, BE880711, AV728251, BE879909, BE876043, BE878122, BE877496, BE876719, BE874662, BE877268, AV706679, BE878178, BE879695, BE876425, AV729465, BE873343, BE891387, BE867307, BE877150, BE877004, BE874747, BE875792, BE878626, AI147501, BE870155, BE877131, AV729314, AI750078, BE876651, BE877390, BE880762, BE898750, BE873954, BE874215, BE877497, BE874926, AV693283, AV725309, BE877757, AV705995, AL048390, BE873478, AV725316, BE880690, BE878213, BE879455, BE892487, BE874003, BE876550, BE897096, BE898560, BE877488, BE880425, AV702923, BE875968, BE891700, BE874696, BE877643, BE879522, AI749163, BE876062, BE870377, BE897811, BE876098, BE877242, AV710316, AI065146, BE868348, BE896982, BE899424, BE880602, BE876884, BE868527, BE879775, BE869133, BE874443, BE875601, BE868532, BE874422, AI114684, BE878330, AI110700, AL036120, BE875438, BE869149, BE879302, BE877542, BE898862, AV726493, BE879410, AV706277, AV760899, AI114569, BE876037, AV721544, BE8880237, BE876785, BE879859, AI133444, AV726351, BE879895, BE867317, BE878477, AV709557, BE877726, BE878238, BE880722, BE898371, BE880140, BE875261, BE877598, BE875955, AI13486, AL639334, AV706033, BE878677, AV708006, BE875918, BE878422, BE881146, BE868603, BE881693, BE877813, BE896992, BE895621, AV702580, AV714977, BE892013, BE877674, AI174902, BE879761, AV709615, BE875062, AV723290, BE881506, BE880977, BE875398, AV705696, BE543600, BE880958, BE880950, AV723029, AV583759, AI114723, BE878900, BE878010, BE880947, AV721627, AA723026, BE868786, BE874402, AV707010, AV721239, BE875536, AV723395, AV702695, BE881638, BE879688, BE878173, AV659215, AV708355, BE880276, BE877727, BE876568, AI83114, AV721920, BE881057, AI110881, BE880427, AI207615, BE880442, BE875310, AI110734, AV759353, BE881359, AI114383, AV708529, BE878468, AV721831, AI069232, BG179900, AV722162, BE881594, AV722611, AV702323, BE878381, BE881411, BE878333, AI720161, BE895091, AI114699, AV706568, AV726110, BE880705, AV700257, AI733732, AW583569, AI133302, BE877616, BE894655, AI110877, AV721391, BE880738, AV706979, AV705894, BE878086, BE877479, </p>
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HAMG186	31	785328	1 - 653	15 - 667	AL520509, BE407109, BE312514, AW294706, N23047, N23711, N23224, A W517021, AC039977, AA287636, AA286793, AW136370, AI362850, AA382819, BF684630, AW409954, AA312796, AI563859, AA312800, BF795529, AA382325, BE711504, BF184364, BF102863, BG106081, BE270088, BE279764, BE902929, BF239561, AI240475, AA229436, BF16216, AW590207, AW673504, BE538140, AA324312, U35117, U75488, A67520, U18422, S79780, L40386, AL080206, and A67526.
HLWCN67	32	794213	1 - 677	15 - 691	AW975308, AA369775, N53897, AA807270, W95818, W95857, BF724803, AI125332, BG117266, BF968973, AU128956, U69567, BF102704, BF965471, BE770768, AV758189, BF111890, AW274041, N55318, D45459, AA301769, AA434064, BF002361, C04552, BG001662, AI569610, AA610288, AW580433, AK002172, AF7090904, AB020703, AX029226, U95000, AX029228, and X64411.
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HRDEL61	34	824886	1 - 810	15 - 824	
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HDPOR60	35	828176	I - 3339	15 - 3353	

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HPRTS71	36	828574	1 - 1032	15 - 1046	AW118056, AL800662, AL589171, BF591232, AL188335, A W082251, A1818095, A W021236, A W591559, A1648866, A W246660, BG230460, A W452998, AL083735, A W835356, AL1167977, A W468639, BG109889, A1470164, A V651830, AL334390, BE673379, A A741201, AL523450, BE070373, BE070439, A A643779, BE070441, BE548231, BE696414, A1248596, A W062368, BF055036, BF111561, A A614258, AL037459, T92093, AL420092, BF741961, N79460, A W393612, T92929, A A649698, A A716590, T93045, T29513, N98655, BF089688, T98007, R28667, A W974688, A1470059, BG179938, A1520746, T92007, A W514438, A1565207, A1252942, A1014682, A1276530, A A707158, A W580299, A A847513, BF803888, A1224129, A V747633, A A452013, A F305057, D00596, X89602, and X67098.
HOHB190	37	828862	1 - 405	15 - 419	AA021223, BE548133, AL045143, I15526, I15525, M76125, AC011510, X57019, X59560, X63535, and X66030.
HOHAL47	38	828872	1 - 907	15 - 921	AU132881, BF220328, R87908, BE613810, A W250257, A A931266, A W015928, BF095373, BF096602, BF095332, A W302696, BF796996, A A370819, A W502753, BE327008, N49168, A1800258, A1738786, A1651019, BF431451, BF891293, A1341119, BF464154, R87900, R87888, BF761409, BF761414, BF761411, BF672137, BF766614, BF761395, BE551754, AB020866, L27841, and AB029291.
HYASE38	39	829298	1 - 820	15 - 834	AL520115, AL520114, BG249568, BE838532, A1719186, AL524961, A A978354, A1963126, A W168149, A1016474, BE464809, BE541556, A W274265, A A126722, A A948354, N95214, A A779559, A143841, A A988766, BF109578, A1052155, A1057145, A A86690, A123988, A A862955, A A531469, A A565025, A1040746, BE315358, W58681, A A883150, A W973071, F27739, A W469738, W25247, A A677158, A A136191, R72558, A A137218, BE774145, BG163522, A W804292, T85571, R06411, BE559994, A1369527, R06410, BE931202, W58682, T85572, BF984740, A1202246, BE771601, A W204406, T96604, T96605, A A126819, BF804866, M29971, E02953, X54228, M60761, M31767, M84524, S01804, M70704, X54862, X65081, A1355531, S52068, S52071, S52289, A1040785, and X61657.
HKAH095	40	829958	1 - 569	15 - 583	BF968527, BF972443, BE888293, BF245922, A132365, BF984449, A1376639, A W959079, BF111350, AL809862, A W967166, A1708626, A A743821, BE274422, A A316016, W31195,

HTTQ02	41	829981	1 - 440	15 - 454	<p>A1800592, AA75502, A1693918, A1709386, AA788752, AA554691, A1077974, A10150242, AA082177, AA308664, A1129002, AW965595, AA815094, AA064826, AA826696, BF109200, A1830845, AW959077, BF687634, BE879836, AA133252, AA757359, AA064769, AA129757, AA187005, AA527421, AA760765, A1300800, AA650536, AA100960, AA083271, A1185271, A1015127, AA805805, D53222, A1244634, AA873340, W38586, AA372743, AA357610, A10151779, AA006731, AW592333, AA533279, AA372493, N90200, BF326039, A1434196, BE168715, AW804095, AA303407, AA305383, D50971, A1023237, A1188378, AA760652, A1074752, AA721457, A1880398, AA935370, AA079099, AA313040, AA226394, BF326038, AA091473, AA045674, AA302617, BE815031, AA045675, A117957, BF326043, AA083230, AA249292, AA385455, BE004885, AA216127, AA523135, AA079126, AA724213, AA766192, AA902562, AV759831, AA491262, A110170, D17041, AA527902, AA632078, and AA769476.</p>
HWACG391	42	830195	1 - 647	15 - 661	<p>AUI33091, AUI42098, AUI41602, AUI34034, AUI35799, AUI41415, AUI36489, AUI41554, AL520149, AUI41624, BF309998, N44941, AAI165467, BG164969, BF305751, AA370928, A1025054, BE544595, BE297897, BF203543, AL047272, AA490707, AW998147, AW998144, BE179597, AV650018, L19871, U19118, and M63282.</p> <p>BG033793, BG225945, BG259666, BE730050, BE794184, BE280411, BE262457, BE407137, BF974510, BG260129, BG387574, BE250058, BE729393, BF990044, BE280432, BF317365, BF975884, BG255124, BE384164, BE875157, BE275535, BF697620, BE249873, BE729424, BG104941, BF528476, BG178885, BE389393, BE742299, AA160739, BE279276, BE370823, BE730234, BF696116, A1905415, BG169584, BG248765, BE409699, BE409459, BE383471, BE279295, BE514728, A1693883, A1906409, BE733527, AA133328, BE734917, BE747004, BE778282, BG120073, BG116573, A1906399, BG252353, BG250627, BG115053, BF205427, AA932527, BF974800, BF976607, BE275617, BE747869, BE238222, BE899354, BF667612, BE732117, BE394529, BE019949, BE255854, BF663000, BG115598, BE270894, BE877328, BE894791, BE742367, BF981923, BG025205, BE270877, BE313842, BE277239, AW246075, BE731739, BF689778, BE266619, BG122027, BE273677, AW327437, BE958080, BE293364, BE741359, BF279606, BE262807, BE731616, BE278518, BE797742, BE280931, A1906381, BE259001, BE620197, BF342810, BE278592, BE269494, BG033349, BF799713, BE256469, BE790350, AA069850, BE744820, BE731628, BE958554, W28216, BE269344, AW246351, BF665331, BE409170, BF346422, BG025476, BE892710, BE251197, BE729414, BE395317, BE747019, BE379494, BE535406, BF980638, BF909487, BE910196, BE795220, BG260707, BG255740, BF310723, BE265360, BE297749, BF311424, BE409357, BG165401, AA186725, BG034975, BF310637, BE744823, BF339822, BE883169, AW67030, BE884838, BE275911, BE394260, A1905506, BE736798, AA131028, BE296169, BE385509, BE735183, BE273644, AAI160637, AA157966, BF796949, BG171791, BF103552, BE278910, BE735411, BG260083, BE895233, BE266952, BE264220, BG255060, AA313667, AA076309, BF149164, BF797136,</p>

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HUFEX32	43	830497	1 - 1969	15 - 1983	
HWLJE49	44	831453	1 - 510	15 - 524	<p>BG251415, BG027650, AV716313, BE744832, BG168126, BE875004, AV712837, BE563257, BF183014, BG113939, AV701796, BG260019, BE244649, BF974779, BE740291, BG114363, BG035325, BG027799, BF169309, AV722365, AV712753, AI887549, BG027575, AI076353, BF725392, BG167147, BF663267, BG059083, BE300764, BE742593, AA806402, AI682046, BG027579, BG255168, BE906641, AI886499, BF967533, BE513190, BF182834, BG180632, BG113207, AI144531, AI149488, BF344518, BE675790, BG026111, AL048205, BE207355, AW277103, AI612881, AF761676, AI299022, AI270732, AA308274, BF575148, BE379881, AW005575, BE675232, BE729684, AI302970, BF684952, BE259873, AI748792, AI823272, AI342462, BG255930, BE728928, AW304345, AI917533, BE388883, AI308142, AI270352, AA315030, AA314014, AI720893, BE208370, AA181838, AI370898, AA314940, AF735477, AA316359, BE909454, AA382161, AA331264, AV705734, AA316330, AW383556,</p>

<p> BE730906, ANV054848, AW270408, AA116482, AL048204, BF684518, BE710368, AA128653, BF182887, BG248959, AA262771, AF1708600, AA316066, BE384624, AA552413, BE907370, BF210707, AA316871, AF730617, F20821, AA316230, AA059344, AA608518, AA718388, BE785770, BE4008695, F22738, AF735055, BE729560, W42994, AA314069, AA186781, N57485, AA316119, AA513389, AA188023, AA531581, BE794778, AF171338, BE056523, AA308375, AW1873255, BF180555, BF346776, AA501758, BE905876, AW084031, A1686866, AW151692, AG125740, BE281427, BE336892, BE905131, AA315838, BG026639, AF720163, AA622853, AF706793, BF183331, BE908893, AG111854, AF360934, BF687562, BE906127, AA186572, AF566835, BE910116, A1832383, AA314578, AF466934, BE568026, AA972504, AA128640, AA525827, AA128773, AA083591, A1348494, DP963570, A1365423, BE620091, AA315026, BF0730646, AA603482, BF237816, AA1000923, BE567357, AA316175, BE877679, BF875309, AF474408, AA313330, AF750155, BF197849, AW514308, BF031710, AW152644, A1805579, A1803860, BE139178, AA314770, AW273529, AA313942, AA316292, BE277552, BF594096, A189776, BF218001, A1828326, BE683513, BF742692, AA622714, AW173183, A1635850, AW269457, N90290, BE744229, A1832624, BE264621, AA496683, AA152205, AA315287, AW271995, AA157114, A1827800, AA186785, BE818645, BE818699, BG150784, BE830831, BE838249, AW769523, BE838220, BE818680, BE830833, AA625916, BF028970, AA508392, AA285319, BF740636, BE818664, A1895361, BE830840, AA100249, AA187300, BF658686, A1081408, BE818690, AA873184, AW268356, A102595, BF28160, AA184826, A1079753, A1610890, BE907035, AA315876, AW861114, A1400650, AA148425, A1200434, F26435, AA128843, BE838257, AX014347, AX061462, M14300, M1891, 102763, X66449, M37761, AW038700, X52278, D10885, U31867, A132717, U76365, X054815, X05699, AB031064, AL442082, B99447, B48979, AF090900, AF090903, AF130092, AF131019, AF116631, AK025084, AL110221, AF116691, AF116646, A1049314, AF118070, AF111851, AF079032, AL157431, AF116688, A08916, AL162083, AB041801, AL100140, A1050149, B99931, AF119875, A1122050, S68736, S78214, AL133640, A48978, U42766, AF071152, AF090934, AF113677, AF119878, AF113699, AF133075, AF130082, A1050277, AF133694, AL110196, AF1330059, AF30105, A1050116, A08913, AL1390167, AL133557, AL133016, AB049758, AB048964, A1049452, AF111847, AK025339, AF106862, AK026741, AF116644, A1050393, AL121223, AB048953, Y11254, AF218014, AK026744, A1242859, AF130075, AL117457, L31396, L31397, AF119899, AK025865, AF090901, AF113689, Y11587, AK026045, A0805938, AL117460, X849940, AL359601, AL138982, AF090943, A1050108, AF116639, Y16645, AK001212, AF078844, AF116602, AF133690, AF118064, AK026855, AL080060, AF090986, AK046603, AL1389978, A1000937, AB047615, AF113676, AF1137527, AF091084, A93016, AF158248, AL137550, AF113691, AK026608, AK000083, AL080124, AF133861, A1049938, AF113013, A1359596, AL162006, AL442072, AL133565, AF104032, AB019565, AX006092, A1221215, A1049466, AF125490, </p>

HLQBT44	45	832454	1 - 735	15 - 749	<p>AL050146, AL133606, AX019229, AK026784, AK025772, AF314091, AL122093, E03335, AF116649, AL133093, AK025938, AF219137, AL080137, AF207829, AB051158, AL133560, AK027204, AL137557, AK000618, AL096744, AB047904, AK025092, AF242189, XE2434, AF146568, AK027096, AL137283, E07361, AL133080, AF079765, AK026592, AL137459, AL135941, AL135918, AB048954, AF125948, AK000137, AL135394, X63574, AL110225, AL117394, AK000652, AF017437, AK026533, AL049300, E02349, AK026452, AF116682, AK026542, AK006927, AF087170, AF177401, AL050138, AK000445, AK024538, AK025583, AF119099, U91329, A63441, AF225424, E07108, AR011880, AK026504, AK026647, A08910, A77033, A77035, AL1359615, AF061943, AK026086, AK000323, AK000718, AK026532, AK026534, AK027113, AK026959, AK025491, AL050024, AB052191, A08912, AL049382, AL133113, AL049464, AL117583, AF183393, AF238278, AF260566, AF097996, AK025967, AL117585, AF067728, AX042059, AB052200, AF271350, I03321, AL117435, AF175983, AK025414, AL049450, A08909, AF130077, and AF118094.</p> <p>AA745837, A155448, A1830118, AA928341, AA669073, AA630270, A W304776, A1418823, AA630539, AA614639, AA701987, AA507015, AA775072, AA577574, AA947337, AA425865, AA740316, AD25815, AA872373, AA481869, A1287247, A W170694, AA058866, A1413303, A1086727, A482053, AA456568, A1984134, AA481821, A1251811, A1479177, AA06673, A4938571, AA894451, A052452, N63977, AA524693, T57094, A1557992, BF594112, AA523604, A1288847, R92183, A1539613, A W194037, A1089207, AA455766, A W129939, AA410742, A1278744, A W805186, BG011966, A W071224, T08990, AA425994, T71879, T58711, AA775671, BG010690, AA235744, H93778, A1631122, A0668735, BF447423, A1933935, AA034382, A W801283, A W801602, AA627657, AA057664, A114853, A1245066, T72828, BF941121, N80768, BG010676, A141304, A W393623, AA477973, A1803211, BG013596, A1494106, T25929, A W004686, A1500081, BF908767, A W42027, BF909560, BF868853, BF908693, BF909563, BF911325, BF868849, BF908765, BF801119, BF848926, A W243946, BE173882, A W878618, BE001388, BE073012, BF890845, BE073329, BF942940, BF990699, AA400639, A W843089, A W833203, BE166207, A1078714, BE076937, BE085445, AA810087, BF908691, A1039389, BE737951, BF908768, BF911435, BF909425, BF810304, BF909438, BF733544, BF848896, AA577947, BF845946, AA559987, BF079182, BF896106, BF907011, A W898529, BF926033, BF874446, BF874408, BF987376, AA577987, A W884119, BF688852, BE146291, AA578162, R0002961, A W170716, BE001389, BF909558, BF908760, AA559135, BF875608, AA558407, BF943834, BF943838, AA504031, R0002880, A W797672, A W014901, BF875543, BF807164, BF934749, BE094775, BF072043, BF905359, A W898535, BF943835, BF878034, A W840660, BF990659, BG002963, BG002966, A W875187, BF762630, BE083383, A W878617, BF845444, BE828029, BE077159, BE075548, BG002874, BF990679, BG002969, BE079010, BF846180, BE094456.</p>
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HSLOG58	46	833088	1 - 1532	15 - 1546	<p>BP911326, A.W930030, BE183543, BE148811, BF838388, BF875612, AW793897, BF874402, BF075582, BF842946, BF946994, BF942939, AW796714, AW850761, BE081861, BF895984, BF003356, BF990667, BE071701, BF755593, AW795384, BG002960, AW850608, BE069882, BF876913, AW899524, BE152211, BF909561, AI094378, BF1990669, BG002976, AA572780, BF987365, AW842761, BF807161, H20370, BF899525, AW905142, AW873882, AW860057, AI039720, AW603507, AW900160, AW860058, AW855931, H46872, AW850775, AW842714, BF874887, BE004092, BF130497, BE048291, BF876370, BF875598, BG002875, BF874887, BE004092, BF805281, BE149153, BF019413, X04481, L09708, M15082, BF139909, AI133733, X04252, X01037, X04248, AB021174, X04249, X02450, M210910, V00477, X04251, X04254, AC055740, AC001976, A75246, X04211, AI132988, AI136303, AI133230, AI137153, AI131216, AI135749, AI031295, X62364, AF317298, AC002464, AC004019, AF109906, AF068289, AC012005, AL078602, AF13677, AR083266, AK000432, BG027160, AL133778, AK026504, AL162008, AF067728, AX042059, AK026542, AL240282, I89947, AF116631, A08916, AF155148, AF119909, AR011880, AF130555, AL137550, AI133596, I48978, A08910, AK026947, AF130105, U42766, AL122049, AF119875, X58996, AX020138, AL162083, Y11254, AL049314, AK026784, AL117457, AI122118, AF090901, AI050138, AB051158, AK026592, AF133099, I66342, A08913, S61953, AI049466, AF090934, U67958, AI122050, A0448974, AF119865, AF113690, AK027164, AK025798, AF087943, AF210052, X84990, AL117585, AF061795, AF151685, AI137533, AB052191, AI157479, AF071152, AF090900, R28997, and AA640968.</p> <p>AI129746, AI122111, AI120110, AI130975, BE0741863, BE865745, BE783786, BG115945, BF437370, BF980935, BF032529, A927626, BG170791, AI360106, BE792111, AI895709, AI515765, AI530323, AI696973, BE673724, BG059365, AI889305, AI940003, AI435237, AI015554, AI425058, AI653782, AI674150, AI292242, AW008174, AA443658, AI052161, AI689404, AW302330, A6682485, AI039198, AA060797, BG055892, BE740312, AI920022, AI559492, BF966723, A4507307, R89566, AA702532, BG055961, AI355925, AA436762, BF083167, BF083176, AW304693, BG152337, BG055803, AA447045, AW743176, R88883, AA069844, AW015302, NG2841, AA340462, BF071627, H12262, AA700417, AI866372, BG022934, AA554984, BG036915, AW075240, AI364688, N77748, AA937871, AI507304, AF735802, AW263377, AW960326, BF038245, BF311363, AI770456, AA657774, A904488, BF530542, AI327748, AW930282, R85655, AA609069, AW188781, BF885085, AI036980, BG165051, AW302992, AW673679, AW673635, AW268067, BE972180, B4964663, AV070674, BF105895, BF163618, A.W946806, BG122481, BF343568, BG115247, AI336633, AI282937, BF764538, BF339994, AI939957, AW150511, BF816037, BG257535, BE888678, AI340627, AI433384, AB573116, AB830821, AW302965, AI620281, BE965121, BE884999, BE047952, AI500662, I783504, AI063696, AA640779, BF344691,</p>
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HCHBQ33	47	840756	1 - 507	15 - 521		<p>BF983424, BF211760, AW157053, BF684202, AW162417, AW162988, AW162603, BF026414, AW157332, BF683534, BF976126, BG032643, BG163354, AW156922, BF974067, BF975973, BF685471, BF969890, AL680129, BG249316, AW157397, BF203227, AL283030, BF970083, BG113896, BG025992, BF969919, BG027552, BF794777, BG029512, BE4009260, BF965750, BF338609, BF972865, BF972470, BG106216, BF310371, AL625563, BE314799, AL499186, AW157806, BG142254, BF316003, BF343200, BG032251, AV752124, BF796091, AL493155, BF969189, AL887440, BF994493, AW276357, BF310677, BF786311, BG165212, BF915655, AU119393, AL887440, BF994493, AW276357, BF310677, BF786311, BG165212, BF969189, AA314895, BG024853, AU126898, BF726955, BF342583, AU090099, AU126739, BG233776, AW029096, F24940, BG057843, AW118506, BG110794, AL928061, BE742652, BF727358, AW160561, BF974254, BF797276, BG059640, AW966494, BF372925, AA583793, AW75867, BF313677, BG142263, BF792984, BE019795, BG104756, BE900127, BE313100, BF732159, BE560126, BE897114, BE272977, BE275883, BE383590, BE409100, BE866877, AU149662, BE293238, BE559675, BE513645, BF037214, BE798309, BE798984, BE874485, AU032309, BF680826, D52392, BE250986, BE253387, BE313181, AA845270, BE314620, BF034696, BE793979, BE882443, BE797123, BF237943, BF736165, BE276565, AA308667, BE790613, BG056375, BE793578, BF125047, BE293961, BE278752, AW328699, BE254190, BE256721, BE909905, AW768638, BF125047, BE795518, BE255031, BE383224, BE780157, BG142170, BE907032, BE620944, BE878341, BE797140, BE276635, BG034095, BE878240, BE909385, AL913962, BE542091, AL735731, AA714332, AA316221, BE901680, BE540321, BF700921, AA524000, BF127837, AL947503, BE254299, AL126588, AW021371, BF026845, BE393303, BF038496, BE888490, AW327273, BF735597, BE561847, AL613771, BE906540, AV689462, BF211684, AW966489, AW162175, BE409686, AW966488, AL523924, AW163020, BE901983, AL766436, BE394377, BE260396, BE397339, AA912488, N54519, BE563380, AW163636, AA514900, AA088705, AL718867, BE048153, BG113893, AA506094, AL159790, BF125341, AW161303, AW769068, AA115703, AA988424, AL198534, AL124116, AL714572, AL581865, BE795020, AW163458, AA507481, AA501840, BE713575, AL409509, AL975929, AL192753, AA720655, BE563655, AL200353, BE887791, AA577162, BG142255, AV515839, AL863295, AL581848, AW161036, BE559641, AL270389, AA603073, AA989575, BF210694, AL564456, AL533217, AA846028, AL925625, BE621765, AL715783, AA515423, N76221, AL745134, AW083236, AA313883, AA187267, F24511, F27741, F26359, AV776904, AA316420, AA181237, AW615576, AA150706, AL287833, AA835523, AA493670, AA846115, AL922586, F31236, AX015385, E06004, E01533, AC007969,</p>